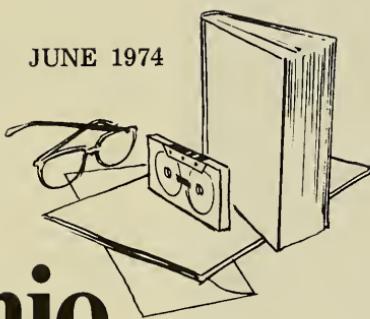




Ohio University Bulletin 1974-75

INDEPENDENT STUDY • EXTENSION DIVISION
INDEPENDENT STUDY COURSES
INDEPENDENT STUDY PROJECTS
COURSE CREDIT BY EXAMINATION

JUNE 1974



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INDEPENDENT STUDY • EXTENSION DIVISION

302 Tupper Hall, Ohio University, Athens, Ohio 45701



PROFILE OF OHIO UNIVERSITY

Chartered in 1804, Ohio University is the oldest institution of higher education in the Northwest Territory. Cutler Hall, the main administration building, was built in 1816 and is a National Historic Landmark. The University has grown from this single building to more than 120 principal buildings covering 640 acres.

The main campus of the University is located in Athens, Ohio, 75 miles southeast of Columbus, at the junction of U.S. routes 33 and 50.

The Athens campus has an enrollment of about 14,500 students in eight colleges and ten schools. More than 4,400 students are enrolled at the regional campuses located in Belmont County, Lancaster, Chillicothe, Portsmouth and Zanesville. There are almost 15,000 students registered in Extension of which approximately 4,000 students are registered in Independent Study.

The seven story University Library seats 4,000 with a capacity of 1.5 million volumes. Also now in use are a 14,000-seat convocation center, a music building, a radio-television communication building, a mathematics and science lecture hall and a botanical research building and animal science building.

Currently the University offers undergraduate study in approximately 100 areas, with a full-time-equivalent faculty of nearly 850. The Graduate College offers 18 doctoral programs and master's degree work in 42 areas.

The University's academic calendar consists of three quarters of from ten to twelve weeks, and a summer quarter of two five-week terms. Many students find it advantageous to register for all sessions, which provides the opportunity for year-round study and research. Graduate assistants have the added opportunity of study with stipend and partial fees during the summer sessions immediately preceding and following the period of their regular appointments. Some graduate appointments and scholarships are available in the summer quarter as well as in the regular academic year.

Ohio University has been a member of the National University Extension Association since 1926. The University is accredited by the North Central Association of Colleges and Secondary Schools and by the professional accrediting associations identified with its major academic divisions.

Ohio University is an equal opportunity employer.

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INDEPENDENT STUDY

The Ohio University Independent Study Program is currently celebrating its fifty-first year of service to the people of Ohio. Ohio University is the only state-assisted institution in Ohio which offers an external independent study program.

The purpose of the Independent Study Program is to provide a number of flexible ways by which persons capable of pursuing college level work can earn college credit without some of the limitations imposed by the traditional university structure. Independent Study allows an individual to learn at the time, place, and rate suited to his or her own particular needs. Independent Study is open to anyone who can profitably pursue the program.

INDEPENDENT STUDY OPTIONS

The student enrolling in independent study may choose from a number of study options which fall along a continuum from a highly structured and directed format to a format which involves minimum instruction and maximum independent effort on the part of the student.

The Ohio University Independent Study Program presently offers study options which involve three points along this continuum:

1. Independent Study Courses
2. Independent Study Projects
3. Course Credit by Examination

Successful completion of an offering in any of these programs carries with it graded resident credit at Ohio University. This credit has generally been readily accepted by other institutions.

The Independent Study Program enrolled approximately 4,000 people during 1973-74. The program is used by people of all ages for a variety of reasons including the following:

- A. Before college by both high school students and adults to
 1. Begin college level work early
 2. Qualify for advanced standing
 3. Try college level work

- B. By anyone pursuing a college degree to
 1. Accelerate a degree program
 2. Solve campus scheduling problems
 3. Complete degree requirements
 4. Continue studies while away from college
 5. Obtain courses not otherwise offered
- C. By adults to
 1. Satisfy certification requirements
 2. Qualify for job advancement
 3. Learn while earning
 4. Gain personal satisfaction

It is possible to obtain a degree through Independent Study although the present level of course offerings generally limits this possibility to associate degrees and the Bachelor of General Studies (see the section of this *Bulletin* on Degree Opportunities). Even when it is not possible to satisfy all degree requirements through Independent Study a substantial portion of these requirements can be met by the Independent Study options.

INDEPENDENT STUDY COURSES

Independent study courses provide a highly structured method of independent study involving a tutorial relationship with a faculty member who guides your learning and monitors your progress through the course. You receive a detailed study guide prepared by the faculty member responsible for the course which provides an overview and directs you through the course using textbooks, cassette tapes, and other educational materials and devices.

The course is broken down into discrete learning units which usually include a lesson, paper, or other project which is submitted to the faculty member for evaluation and comment. The study guide often includes self-check tests or other devices which allow the student to monitor his own progress. Generally, two supervised examinations are required, a mid-course and a final examination.

INDEPENDENT STUDY PROJECTS

The Independent Study office will arrange an independent study project for you in any undergraduate course at Ohio University which is not currently available as an independent study course. These arrangements are made on an individual basis and are contingent upon the approval of the department in which the course is offered and the availability of a qualified faculty member willing to direct the project.

You and the faculty member agree upon the conditions which must be fulfilled for credit to be awarded. This can include a variety of readings, examinations, papers and projects. The independent study project is designed to provide you with the knowledge and experience that is comparable to that which you would obtain by taking the course on campus. It provides a way in which the course requirements can be tailored to your individual needs and circumstances.

COURSE CREDIT BY EXAMINATION

Course Credit by Examination represents the least structured method of obtaining college credit through the Independent Study Program. You enroll in the course in which you wish to obtain credit by examination and receive a brief syllabus which describes the nature of the course, the textbooks and other material to study and the type of examination you can expect. The supervised examination must be taken within six months. You prepare for the examination without intermediate assistance from the faculty member. Upon successful completion of the examination, you receive a grade and resident Ohio University credit. Failures are not reported and no penalty is incurred. The program provides both the opportunity for you to demonstrate proficiency in a subject and a flexible study option to meet your individual needs and circumstances.

GENERAL INFORMATION

POLICIES AND PROCEDURES

Organization of the Bulletin

This bulletin is organized into the following five sections:

Independent Study

This section explains the nature of the independent study opportunities available through the Ohio University Independent Study Office.

General Information

This section includes the policies and procedures which apply to all the independent study options, the degree and special opportunities available, and how to obtain further information.

Independent Study Courses

This section contains specific policies and procedures that apply to independent study courses along with a listing of the independent study courses available.

Independent Study Projects

This section describes specific policies and procedures that apply to independent study projects.

Course Credit by Examination

This section describes specific policies and procedures that apply to course credit by examination and gives a listing of the courses that are available on a regular basis under this option.

How to Enroll

Read all the information contained in this *Bulletin* and then select the course or courses for which you wish to enroll. Complete the enrollment form contained in the centerfold of this *Bulletin* and mail it to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

A check or money order payable to Ohio University should be enclosed.

You may enroll for a course at any time. Independent Study does not follow the traditional academic calendar, so you can begin your course as soon as you enroll. If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Independent Study. If you are currently enrolled at another institution of higher education or if you plan to transfer the credit earned you should obtain written permission from the college that is to accept the credit. Others do not need any special permission.

Fees

	Ohio Residents	Non-residents
Independent Study Courses	\$17.50	\$20.00
Independent Study Projects	\$17.50	\$20.00
Course Credit by Examination	\$ 7.50	\$ 7.50

Note: Scholarships to cover the cost of the non-resident fee differential of \$2.50 per quarter hour are available. To apply, write to the Director, Independent Study, Ohio University, outlining your need.

Credit

The credit earned in this program is expressed in quarter hours. All credit is considered resident credit at Ohio University and there is no limit to the amount of independent study credit which can be applied to an Ohio University degree. Independent study credit can generally be transferred to other institutions; the accepting institution, however, establishes the policy in this matter. You are therefore urged to make arrangements in advance so that you will know that the credit earned will transfer.

Admission

Independent Study is open to all who can profit from it and formal admission to the University is not required for enrollment. Admission to Independent Study, however, does not constitute admission to Ohio University. Although most persons who enroll are high school graduates, it is not necessary for you to have a high school diploma if you are an adult. High school students recommended by their principal or guidance counselor are eligible to enroll in lower division courses.

Enrollments are accepted on a noncredit basis for those who are not interested in college credit but who are studying for personal satisfaction. The noncredit fee is the same as the credit fee but the supervised examinations can be omitted.

Advising

If you are earning a degree at another institution or plan to do so, you should consult with a representative of that institution before enrolling. If you are an Ohio University student, you must secure the written permission of your academic dean. All prospective students may consult with the Independent Study staff for assistance in selecting a course. More detailed information such as textbooks and course content is available and will be sent on request.

Pass-Fail Option

Students whose institutions will accept such credit may enroll for the pass-fail option if they so indicate at the time of their enrollment. Ohio University students must have the written permission of their academic dean to participate in this option.

Completion of Work

You must enroll in sufficient time to complete your work for a specific deadline such as graduation or certification. Ohio University degree candidates should complete all requirements, including the final examination, two weeks before the end of the quarter in which they expect to receive the degree. Students completing degrees at other institutions should determine in advance what their deadline is and inform the Independent Study office. It should be kept in mind that time must be allowed for preparing and mailing official transcripts.

Textbooks

Most courses require the purchase of one or more textbooks. Information about the textbooks will be sent to you by first class mail immediately following enrollment. It then becomes your responsibility to secure them. All books are available through bookstores in Athens, where they can be most conveniently ordered. You can have the books shipped and be billed for their cost if you request this service.

Transcript of Record

A form is provided with the material you will receive upon enrollment which you may use to request directly from the Office of Student Records, Chubb Hall, Ohio University, Athens, Ohio 45701, an official transcript of a course completed. The fee of \$1.00 for each transcript should be sent with the request; the transcript will be sent to the person or institution indicated on the form.

For students who complete independent study courses or independent study projects the transcript will indicate that they were completed in the "Independent Study Program"; for students who complete course credit by examination the transcript will indicate they were completed by "Course Credit by Exam." All types of independent study credit is considered resident credit by Ohio University and there is no limit to the amount that can be applied to an Ohio University degree.

Examinations

Most of the independent study options require one or two supervised examinations. If you reside near an Ohio Uni-

versity campus you may take your examination at the nearest campus (see the list on page eleven). Others can arrange to have their examinations proctored at another college or university or, if it is more convenient, at a local school. Ohio University reserves the right to reject a proposed examination supervisor. Detailed information about examination procedures will be included with your enrollment material.

Teacher Certification

Independent Study credit can usually be applied toward teacher certification requirements. Individual cases should be checked with the institution responsible for recommending for certification or with the State Department of Education. In Ohio, students who are completing an undergraduate degree or who hold one from an Ohio institution should check with their university. Those holding an undergraduate degree from an out-of-state institution should check with the Division of Teacher Education and Certification, Ohio Departments Building, Columbus, Ohio 43215.

Honor and Integrity

Students enrolled in Independent Study are expected to maintain high standards of honor and integrity. All work submitted is to be accomplished through their own efforts. Academic penalties will be invoked in cases involving dishonesty or plagiarism.

Course Numbering System

The catalog number indicates the student classification for which the course is primarily intended.

001-099 Noncredit courses

100-299 Undergraduate General Program

300-499 Undergraduate Advanced or Specialized Program

Prerequisites are indicated by course numbers only (102, 103, and so on) if the course appears elsewhere in this *Bulletin*; course number and title are otherwise used. Prerequisites can sometimes be waived for students who are not in Ohio University degree programs.

DEGREE OPPORTUNITIES

If you are interested in obtaining a degree primarily through the various independent study options, the Independent Study office will aid you in planning a program leading to an Ohio University associate or baccalaureate degree. The nature of the degrees is described in the following materials. While it is possible

to structure a degree solely through independent study offerings in some areas, it may be necessary to take certain courses either on a campus or from another institution offering an Independent Study Program because of the limited number of courses currently available in the Ohio University Independent Study Program. Regardless of your area of concentration, however, a major portion of your program can be completed, if you wish, off-campus, through the independent study offerings.

Prior to applying for admission to Ohio University for acceptance to a degree program, you may wish to consult with the Independent Study office and request an informal evaluation of any prior college level work. This informal evaluation and assistance in program planning will be provided by the Independent Study office for a fee of \$25.00. If you are interested in making use of this service you should complete the application for External Student Status which will be sent on request and submit transcripts of all previous work along with your check or money order to the Independent Study office. In the event it appears that the Independent Study Program cannot accommodate your goals this fee will be refunded. You are not required to apply for formal admission to the University in order to participate in the Independent Study Program. You may wish to delay such application until you have at least 45 quarter hours of Ohio University or transferable credit earned.

Bachelor of General Studies

The Bachelor of General Studies Program provides an opportunity for students to design their own education. The student with high motivation, an exceptional background or an unusual combination of talents and interests may find this degree useful in attaining his goals. It is intended for students who know who they are and what they want but wish to take a nontraditional approach to their education. Students may propose to University College their plan for an individually designed program of study. Following consultation with counselors and approval of the proposed program of study by a University College committee, the courses planned for an area of concentration become the requirements for graduation. The General Studies Program creates no special privileges nor does it allow you to ignore course prerequisites. It does allow you to select from the existing curriculum those courses which lead you toward your particular educational and career objective, and it provides you the context and support for pursuing an entirely unique degree.

Graduation requirements for the Bachelor of General Studies degree are as follows:

1. To be admitted to the Bachelor of General Studies Program you must have earned no less than 45 quarter hours of credit and have an accumulative grade point average of 2.0.
2. Complete a concentration area of at least 45 quarter hours.
3. Earn no less than 45 quarter hours after admission to the General Studies Program and complete 90 of the 180 quarter hours of credit required for graduation in courses numbered 300 or above (i.e., junior or senior level courses).
4. Earn 180 quarter hours of college level credit with a minimum grade point average of 2.0 (excluding any remedial or duplicate course work).
5. For students who complete fewer than 90 quarter hours at Ohio University, the final 45 hours must be Ohio University credit. For students who complete 90 or more quarter hours of Ohio University credit, the final 15 hours must be Ohio University credit.

Bachelor of Arts/Bachelor of Science

Significant amounts of course work which can be applied toward the other baccalaureate degrees offered by Ohio University can be earned through Independent Study. The specific degree requirements and the availability of courses to meet these requirements using the independent study options will vary depending upon the area of major study.

Associate Degree Programs

Ohio University's various Associate Degree Programs were under review at the time this *Bulletin* went to press, so that an exact statement was not possible. Persons interested in an Associate Degree are encouraged to write to the Independent Study office for more current information. However, it appears that the following degree options will be available:

Associate in Arts: awarded for the satisfactory completion of a minimum of 90 quarter hours of credit with a minimum 2.0 accumulative grade point average. The 90 credits for the AA must include as general education at least 30 credits in Arts and Humanities theory courses (some credits in each area), 15 credits in Social and/or Behavioral Sciences, and 15 credits in Natural Sciences and/or Mathematics.

Associate in Individualized Studies: awarded for the satisfactory completion of a minimum of 90 quarter hours of credit with a minimum 2.0 accumulative grade point average in a self-designed course of study. The student must complete the AIS application outlining an intended course of study and indicate an area of concentration. The student must indicate two resource (advisory) faculty and/or staff members who have been consulted in the preparation of the program, one of whom must be from the student's area of concentration. No minimum or maximum number of credits is required within an area of concentration, with such a determination to be made by the resource people in consultation with the student in the development of the program. (The Independent Study office assists the student in making the necessary contacts with the resource persons.)

Transfer Credit

The following policy governs the transfer of credit to Ohio University degree programs:

College Courses: Credit granted by regionally accredited institutions of higher education will generally be accepted for transfer if the grade earned is C- or better. The applicability of the credit to an Ohio University degree is determined by the college within the University granting the degree.

United States Armed Forces Institute (USAIFI): In those cases where USAIFI programs carry a credit recommendation, credit will be granted for scores at or above the 45th percentile. The applicability of the credit to an Ohio University degree is determined by the college within the University granting the degree.

Military Service Schools: Credit may be granted for service school courses which are the equivalent of college level work and for which credit is recommended by the Commission on Accreditation of Service Experiences (CASE), and recorded in "A Guide to the Evaluation of Educational Experiences and Armed Services" 1968 edition. The applicability of the credit to an Ohio University degree is determined by the college within the University granting the degree.

Technical Institutes: In accordance with our general policy of granting transfer credit as described above from regionally accredited institutions, credit from an accredited technical institute in general edu-

cation studies will transfer. Work in technical and basic studies will transfer only with the approval of the department in which the student expects to major.

SPECIAL OPPORTUNITIES

Veterans

Independent Study is approved for veterans, servicemen currently serving on active duty for more than 180 days, and for certain wives, widows, and children. The educational assistance allowance is the same as for courses taken in residence. Veterans should submit VA Form 22-1990, Veteran's Application for Program of Education or Training, or VA Form 22-1993a, Certificate of Eligibility; servicemen on active duty should submit VA Form 22-1990a; others should consult the Veterans' Administration.

College Courses For High School Students

Capable high school juniors and seniors who are recommended by their guidance counselor or principal will be permitted to enroll in courses for college credit. Lower division courses are suggested as most appropriate for these students.

College Level Examination Program

Ohio University participates in the College Level Examination Program (CLEP) sponsored by the College Entrance Examination Board and the Independent Study office serves as an open test center for the program. Examinations are scheduled on Saturday of the third week of each month. University policy allows the awarding of up to 45 quarter hours of credit for the general examinations as well as appropriate credit for the subject examinations. This program is especially useful for the adult who has had no previous college experience but whose work or life experience may be the basis for college credit. It is also useful for the beginning college student who has had an enriched high school experience. For detailed information, write to CLEP, Box 592, Princeton, New Jersey 08590 or Director, Independent Study, Tupper Hall 302, Ohio University, Athens, Ohio 45701.

Independent Study by Television

The Independent Study office can make available to sufficiently large groups, with access to closed circuit television systems, a few television courses which lead to college credit. Interested groups should contact the Independent Study office for more details.

Extension Division

Independent Study is only one of three sections comprising the Extension Division

at Ohio University. *Continuing Education and Workshops, Conferences and Institutes* are the other two units. All three of these offices are devoted to providing educational opportunities beyond the regular channels of the University by utilizing the resources of the University in nontraditional ways.

Both the Continuing Education and the Workshops, Conferences and Institutes offices provide credit and noncredit programs in such diverse areas as undergraduate and graduate credit courses, technical and professional programs, community development, liberal adult education, avocational and recreational programs. Even though the thrust of the effort is toward meeting the needs of those individuals not enrolled in the university, some programming is done to meet the needs of regular students.

Continuing Education classes are long term in nature and are generally held in the evening, although some daytime programs are scheduled. Workshops, Conferences and Institutes are more concentrated and usually run full-time for two or more days during the academic year with some summer programs lasting several weeks.

The standard University tuition is charged for any credit course work; each noncredit program has a fee determined primarily by direct costs; whenever possible public service activities are conducted at no cost to participants. Admission to the University is necessary only for credit courses; otherwise, any one may usually register for a noncredit course.

For further information on current and planned offerings or to discuss developing a class or workshop, contact:

Andy Chonko
Workshops, Conferences and Institutes
Ohio University
301 Tupper Hall
Athens, Ohio 45701
614/594-4907

Z. Brent Fry
Continuing Education
Ohio University
308 Tupper Hall
Athens, Ohio 45701
614/594-3361

FURTHER INFORMATION

For further information, please write to the Director, Independent Study, Tupper Hall, Ohio University, Athens, Ohio 45701 or call 614/594-4494. Those living near a regional campus can contact the Continuing Education office of that campus for further information or assistance.

Lester E. White
Ohio University-Belmont County
National Road West
St. Clairsville, Ohio 43950
614/695-1720

Paul P. Mechling
Ohio University-Lancaster
1570 Granville Pike
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Stephen J. Phillips
Ohio University-Chillicothe
Bennett Hall, Box 629
Chillicothe, Ohio 45601
614/775-9500

INDEPENDENT STUDY COURSES

A description of the nature of independent study courses is provided on page five of this *Bulletin*. This section of the *Bulletin* gives information about those policies which apply to the independent study courses, together with a listing of the independent study courses available at the time this *Bulletin* was printed. You will also need to read carefully the "General Information" section for additional information on the policies and procedures which apply to independent study courses.

How to Enroll

Select the course or courses for which you wish to enroll from the list of independent study courses. Complete the enrollment form in the centerfold of this *Bulletin* and mail it to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

A check or money order payable to Ohio University for the course fee should be included. The fee is \$17.50 per quarter hour for Ohio residents and \$20.00 per quarter hour for non-residents (see the section on Fees under "General Information"). If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Independent Study. If you are currently enrolled at another institution of higher education or if you plan to transfer the credit earned, you should obtain written permission from the college that is to accept the credit. Others do not need special permission.

Postage

The cost of mailing the course study guide and graded assignments is covered by the enrollment fee. You are responsible

for the postage on assignments mailed to the Independent Study office. If you live at some distance from Athens you may wish to have your study guide and assignments sent by airmail. You may do so by paying an additional fee according to the schedule at the bottom of this page.

Lesson Processing

Shortly after you enroll you will receive a study guide containing all the required lessons in the course. These written lessons are submitted to the Independent Study Office, Tupper Hall, Ohio University, Athens, Ohio 45701 where a record of their receipt is made and then they are immediately forwarded to the instructor for evaluation, grading, and comments. They are returned to the Independent Study office by the instructor where the grade is recorded before they are mailed back to the student. The time required for grading is generally from one to two weeks. This time will depend somewhat on any delays in the mail and on the instructor's personal schedule for all instructors also carry teaching loads in residence. During vacation periods and between quarters some instructors leave campus; thus, some delay may occur at these times.

Grades

The lessons you submit will be graded by the instructor assigned to the course. The method of grading is explained in detail in each study guide. Final grades are generally determined by grades on supervised examinations and they are reported on an A to F scale. Plus and minus signs may be reported together with the letter grade, for example, B+. Examinations are not returned but a mid-course examination report and grade is sent. A final grade report will be sent to you at the same time

Airmail Postage Fee Schedule

Location	1 qtr. hr.	2 qtr. hrs.	3 qtr. hrs.	4 qtr. hrs.	5 qtr. hrs.
United States, Canada, Mexico, APO and FPO	2.25	3.00	4.00	4.75	5.75
South & Central America & West Indies	5.00	8.00	11.50	15.00	18.50
Europe & North Africa	6.00	10.00	14.00	18.00	22.00
Remainder of Africa, Asia, and the Pacific	6.50	10.50	14.50	18.50	22.50

Airmail fees are not refundable.

the grade is reported to the Office of Student Records. See the "General Information" section for information on the pass-fail option.

Fee Refund Policy

A full refund is given only when you are refused enrollment. If you request withdrawal within one month from the date of your enrollment, the course fee will be refunded less \$10.00 and \$1.50 per lesson submitted. If you request withdrawal between one and two months from the date of your enrollment, one half of the course fee will be returned, less \$1.50 per lesson submitted. No refunds will be authorized after two months from the date of enrollment.

Transfers

You are permitted to change your registration once to another independent study offering during the first six months of enrollment. You must pay the difference in fees, if any. The amount transferred to the new fee will be the original fee less \$10.00 and \$1.50 per lesson submitted. No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original enrollment remains effective for all transfers.

Time Limits and Extensions

Maximum Time: You are allowed one year from the date of enrollment to complete a course. If the work has not been completed in that length of time, an extension of three months can be requested. When approved, the fee for an extension of time is \$5.00. In certain cases, a second extension may be granted. If a student

fails to apply for an extension before his enrollment expires and he is withdrawn, a reinstatement fee of \$10.00 in addition to the extension fee must be paid. Reinstatements can be authorized only during the three month period following the expiration of the initial enrollment.

Minimum Time: You may proceed through your course at a rate that is mutually satisfactory to you and to your instructor. Ideally, after the first lesson is submitted, another is not sent in until the preceding one has been evaluated by the instructor and returned. Some students, however, will wish to work at a faster rate. Since the rate must be largely determined by your ability to do the required work, you should inform your instructor of your desire to work at a faster rate in an early lesson. As soon as the instructor has had an opportunity to form an opinion about your ability, he will either permit or deny your request. In making a request, you should keep in mind that correspondence courses are designed to allow a dialogue between students and instructors. For students who do not want such a dialogue or for students who have prior knowledge of a subject, opportunities are available to earn credit by examination.

Special Courses

If the course you need is not available in the listing of Independent Study Courses it may be available under the Course Credit by Examination option, or it may be possible to arrange for it as an Independent Study Project. Please consult the appropriate section of this *Bulletin* for information about these options.

LIST OF COURSES

This list contains the Independent Study Courses available on a regular basis at the time this *Bulletin* was printed. Periodic supplements to this *Bulletin* will note any courses added or deleted. A list of courses available under the Course Credit by Examination option appears elsewhere in this *Bulletin*.

ACCOUNTING

101 Managerial Accounting (4)

Prereq: Econ 101. Uses of accounting information for making managerial decisions.

102 Managerial Accounting (4)

Prereq: 101. Continuation of 101.

303 Accounting Principles and Procedures (4)

Prereq: 102. Fundamental accounting principles and practices emphasizing data accumulation using accounting techniques. Primarily intended for those specializing in accounting.

310 Cost Accounting (4)

Prereq: 102. Manufacturing cost determination under job-order and process systems. Establishment of standard costs, budgets and analysis of variances.

451 Auditing Principles (4)

Prereq: 24 hrs of accounting. Purposes and scope of audits and examinations; audit principles and procedures; audit reports and certificates.

AVIATION

110 Primary Ground Instruction (4)

40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction and performance data to meet requirements of private pilot's written exam.

310 Commercial Ground Instruction (4)

Prereq: private pilot's certificate. 40 hrs of ground instruction covering advanced radio navigation, meteorology, FAA regulations, aircraft construction, performance data and instruments to meet requirements of commercial written exam.

BLACK STUDIES

107 Introduction to Afro-American History (5)

In-depth study of impact of Afro-American people on general development of American society with particular emphasis on Reconstruction and Civil Rights Movement of the 50s and 60s. Available September, 1974.

111 Introduction to Afro-American Literature (5)

Survey of Afro-American literature and linkage of general notions and concepts to social conditions during this time period as reflected in the works. Covers the period from 1920 - present. Available September, 1974.

211 Third World Literature (5)

Survey of various literary trends and authors of 3rd world countries (i.e., Africa, South America, Central America, etc). Available September, 1974.

BOTANY

101 Principles of Biology (5)

Introduction to principles and concepts of life; emphasis on interrelationships of structural, functional, reproductive, evolutionary and ecological principles related to cells and organisms. Lab assignments included. (Same as Zool 101.)

102 Plant Biology (5)

Prereq: 101. Morphology and anatomy of seed plants as related to function. Survey of plant kingdom with emphasis on evolutionary relationships and life histories of selected plant groups. Lab assignments included.

Note: Botany 101 and 102 require the use of slides; a deposit of \$10 will be charged of which \$8 will be refunded when the slides are returned unbroken.

133 Nature Study (5)

Designed to develop awareness, understanding and appreciation of living things; emphasis on materials and methods that will be of use to teachers.

BUSINESS ADMINISTRATION

493 Readings (1-15)

Prereq: permission. Readings in selected fields of business administration. Topics selected by student in consultation with faculty member. The amount of credit varies from 1 to 15 hours. A study proposal must be submitted with the application.

BUINSS LAW

255 Law and Society (4)

Conceptual approach to origin, nature, structure, functions and procedures of law with study of contractual relationships.

355 Law of the Management Process (4)

Prereq: 255. Conceptual framework of

legal nature of organizations, particularly corporations and partnerships; rights, powers and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state and public.

442 Law of Property (Real Estate Transactions) (4)

Prereq: 356 or perm. Property law as an institution and analysis of creation, transfer and relation of various legal interests in property, especially land.

CHEMISTRY

121 Introduction to Chemistry (5)

Prereq: h.s. algebra, h.s. chemistry desirable. Open to students in all areas. Designed to provide an introduction to chemistry through study of atomic and molecular structure, bonding, states of matter and identification of materials.

122 Chemistry of Solutions (4)

Prereq: 121. Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. For students from colleges of engineering and technology (except chemical engineering), education (except science modular program), other colleges and programs requiring only 1 yr of chemistry.

301 Organic Chemistry (3)

Prereq: 1 yr. of college chemistry. Non-lab course in fundamentals of organic chemistry for persons who are not degree candidates with majors in chemistry or chemical engineering.

302 Organic Chemistry (3)

Prereq: 301. Continuation of 301.

CLASSICAL LANGUAGES GREEK AND LATIN LANGUAGES

111 Beginning Greek (4)

Grammar, vocabulary and reading of ancient Attic Greek. A student who has access to audio play back equipment (reel or cassette) is strongly urged to submit a \$2 fee with his registration so that a tape which will become his property may be sent to him for help in learning the spoken language.

112 Beginning Greek (4)

Prereq: 111. Continuation of 111.

113 Beginning Greek (4)

Prereq: 112. Continuation of 112 with readings from the *Dialogues* of Plato, *Histories of Thucydides* and *Herodotus* and *Aesop's Fables*.

111 Beginning Latin (4)

Grammar, vocabulary and reading. A student who has access to a cassette or reel

tape recorder is strongly urged to submit a \$2 fee with his registration so that a tape which will become his property may be sent to him for help in learning the spoken language.

112 Beginning Latin (4)

Prereq: 111. Continuation of 111.

113 Beginning Latin (4)

Prereq: 112. Continuation of 112 with readings on Roman civilization and excerpts from the *Aeneid* and Caesar's *Commentaries*.

211 Intermediate Latin (4)

Prereq: 113 or 2 yrs. of high school Latin. Cicero's *Orations*. Effort made to provide adequate review as well as to progress in reading a new author.

212 Intermediate Latin (4)

Prereq: 113 or 2 yrs. of high school Latin. Readings from Vergil's *Aeneid*, Books I-VI.

ECONOMICS

101 Principles (4)

Basic theory of national income analysis. Economic problems and economic institutions of society.

102 Principles (4)

Prereq: 101. Continuation of 101. Basic theory and economic analysis of prices, markets, production, wages, interest, rent and profits.

303 Microeconomics (4)

Prereq: 101 or 201. Price system as an allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have an understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 101 or 201. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment and capital formation. Student expected to have an understanding of elementary algebra and geometry.

320 Labor Economics (4)

Prereq: 102 or 202 or 303. Economic forces generating modern labor problems. History of labor movement; labor in politics; labor-management relations; wages and full employment.

334 Public Utilities (4)

Prereq: 303. Economic basis of public utility concept and its relation to business organization. Nature, scope, development, legal organization and regulation of public utilities.

340 International Economics (4)

Prereq: 102 or 202 or 303. Economic relations of nations of the world. Some of topics considered are: economic basis for international trade and investment; mechanics of international exchange; tariffs, quotas, exchange control, cartels and state trading as devices of economic nationalism, international economic cooperation with special reference to organizations affiliated with United Nations.

430 Public Finance (4)

Prereq: 303. Role played by government as user of economic resources and redistributor of incomes. Some questions explored: need for government's entry into economy, optimal size of government, selection of tax and expenditures schemes and effects of government economic activity on private sector.

493 Readings (1-15)

Prereq: permission. Readings in selected fields of economics. Topics selected by student in consultation with faculty member. The amount of credit varies from 1 to 15 hours. A study proposal must be submitted with the application.

ECONOMIC EDUCATION**497 Independent Research (3-5)**

Economics in the curriculum: Designed to provide a study of (1) fundamental economic concepts, (2) methods of inquiry employed by economists. Basic course carries 3 hours credit; additional credit up to 5 hours can be arranged. A study proposal must be submitted with the application.

EDUCATION, ELEMENTARY**200 Studies of Children (4)**

Bases for a developmental theory of education; growth sequences through adolescence; principles of development, behavior and learning; techniques of child-study; systematic observation of children during the course; implications for educational practice.

321 Children's Literature (4)

Criteria for selection of children's literature, children's reading interests, preparation of materials for use in literature program, and reading of outstanding literature for children.

EDUCATION, SECONDARY**250 Analysis of Teaching (4)**

Provides immediate focus upon training in systematic observation and analysis of the teaching act. Emphasis is placed upon development of criteria and tools of self-analysis as a means for improving teacher performance. Available only to those currently engaged in classroom teaching. Requires the use of a tape recorder and the purchase of a prerecorded tape. Add \$3.00 to the fee to cover the tape cost and specify either reel or cassette. A brief statement describing past and present teaching experience must be sent with the course application.

ENGINEERING**Review of Engineering Fundamentals (Noncredit)**

Prereq: perm. Review of topics common to all branches of engineering and usually covered as part of the general (first day or E.I.T.) examination for professional engineers. Topics include mathematics, physics, chemistry, economics, electricity, statics, dynamics, strength, thermodynamics and fluid mechanics. Noncredit with fee based on that of a 3 qtr. hr. course.

ENGINEERING, CHEMICAL**200 Introduction to Chemical Engineering (4)**

Prereq: Chem 122 or 142, Chemical Energetics, Math 263A. Applications of chemistry, physics and mathematics to solution of material and energy balances typical of those encountered in process industries.

331 Principles of Engineering Materials (4)

Prereq: Chem 122 or 142, Chemical Energetics. Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic and polymeric materials.

ENGINEERING, CIVIL**220 Statics (4)**

Prereq: Math 263B. Laws of equilibrium of forces; friction; centroids and movement of inertia.

321 Dynamics (4)

Prereq: Math 263C. Motion of particles and rigid bodies, work and energy, impulse and momentum.

ENGINEERING GRAPHICS**101 Engineering Drawing (3)**

Beginning course for students of engineering and technology and related fields;

basic techniques, processes and standards, multiview drawing, freehand drafting, fundamentals of dimensioning, auxiliary views, section views and sectional assemblies.

103 The Slide Rule (1)

Prereq: 3 yrs h.s. math or perm. Slide rule computations involving multiplication and division, simple powers and roots, trigonometric functions, vectors, logarithms, fractional powers and roots of numbers. Modern 10" Log Log duplex decitrig slide rule required.

ENGLISH

181 Contemporary Writing Skills (English Composition) (5)

To teach basic skills in written composition. For those who write well and wish to improve, as well as for those who know they write badly and seek a remedy. Open to any student who elects this course on his own initiative.

201 Interpretation of Fiction (5)

Prereq: 5 hrs above 100. Forms and techniques of art of fiction.

202 Interpretation of Poetry (5)

Prereq: 5 hrs above 100. Intensive reading of selected poems from all periods of English and American literature and study of forms and techniques.

203 Interpretation of Drama (5)

Prereq: 5 hrs above 100. Analysis of dramatic forms including Greek, French, English, Norwegian, Russian and American plays.

206 Introduction to Comparative Literature III: The Modern Tradition (5)

Prereq: 5 hrs above 199. Selected literary works which provide background for and express modern sensibility in western literature.

301 Shakespeare, The Histories (5)

Prereq: 5 hrs above 199. History plays.

302 Shakespeare, The Comedies (5)

Prereq: 5 hrs above 199. Comedies.

303 Shakespeare, The Tragedies (5)

Prereq: 5 hrs above 199. Principal tragedies.

304 English Bible (5)

Prereq: 5 hrs above 100. Selected prose and poetry of Old and New Testaments.

308 Advanced Composition (5)

Prereq: jr rank. Aim: to increase skills and expertise in writing of discursive prose. Method: regular practice and evaluation, supplemented by attention to professional prose and concepts in rhetoric and style.

309 Creative Writing (5)

Prereq: 201 or 202 or 203. Beginning course in creative writing. Will concentrate on processes of invention as they lead to works of fiction and poetry. Student manuscripts criticized; creative literary works of recognized importance analyzed; act of writing a continuing practice.

321 American Literature to the Civil War (5)

Prereq: 10 hrs above 199. Study of Poe, Melville, Thoreau, Emerson and others.

322 American Literature Since the Civil War (5)

Prereq: 10 hrs above 199. Study of Twain, James, Howells, Crane, Dickenson and others.

331 20th Century British and American Literature (5)

Prereq: 10 hrs above 199. Some major works, writers and genres of British and American literature in this century.

457 Readings in English Education (5)

Prereq: jr rank. Recent developments and writings in English education and their possible application to the teaching of jr and sr high school English.

HUMANITIES

107 Humanities—Great Books (3)

Classics of western civilization leading toward an understanding of cultural heritage. Guidance in critical thinking, reading and writing about those works.

108 Humanities—Great Books (3)

Continuation of 107.

109 Humanities—Great Books (3)

Continuation of 107, 108.

FILM

480 Individual Problems (1-5)

Production of a motion picture in super 8 or 16 mm formats. May be repeated. Perspective students must verify their ability to do such work and show they have the means in terms of finances and equipment. A proposal must be submitted with the application.

481 Individual Readings (1-5)

Students are expected to read two books or a reasonable equivalent per credit hour and to submit an analytical paper of the results of such reading. A study proposal must be submitted with the application.

FINANCE

497 Independent Research (1-15)

Research in selected fields of finance.

Topics selected by student in consultation with faculty member. The amount of credit varies from 1 to 15 hours. A study proposal must be submitted with the application.

GEOGRAPHY

101 Elements of Physical Geography (5)

Systematic survey of earth-sun relationships, landforms, weather and climate, soils and natural vegetation as background for cultural geography which is recommended to follow this course.

121 Elements of Cultural Geography (4)

Systematic survey of settlement, population and economic activities in geographic studies.

130 Economic Geography (4)

Survey of locational economic patterns and their interrelationships. Available September 1, 1974.

GOVERNMENT

101 American National Government (4)

Constitutional basis and development, political processes and organization of American national government.

102 American National Government (4)

Prereq: 101. Concerned with administration and policy-making processes of national government in selected areas, i.e., welfare, civil rights, defense, etc.

304 Politics in the American States (5)

Prereq: 102. Comparative analysis of state political systems. Emphasis on structure and process of policy-making of states within a federal context.

320 Urban Politics (5)

Prereq: 102. Impact of urbanization on structure and functions of municipalities. Emphasis on role of government in resolving community conflict.

332 Comparative Government (4)

Government and politics of France and Germany.

333 Comparative Government (4)

Government and politics of Communist party states with particular emphasis on the Soviet Union.

350 International Relations (5)

Prereq: 8 hrs. Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

HEALTH, PHYSICAL EDUCATION AND RECREATION

202C Personal and Community Health (4)

Practices and appreciation of means whereby health of individual and group may be maintained.

227C First Aid (3)

Principles and practices of American Red Cross first aid. Standard certificate is granted upon completion of an optional one day campus workshop.

252C Kinesiology (4)

Prereq: Zool 301, Human Anatomy. Analysis of human movement based on anatomical and mechanical principles.

270C Teaching of Physical Education (3)

Organization and program suggestions for teaching physical education in elementary school. Designed for elementary education students.

369C Teaching of Health (5)

Prereq: HPER 202C; EdSe 250. Instruction, principles and curricula used in presenting health information to pupils in elementary and secondary schools.

370C Community Health Programs (4)

Prereq: 202C, 369C or perm. Institutional frameworks for promoting and maintaining health of the people in community, state and nation. Available October, 1974.

381 Administration of Intramural Sports (4)

Organizing and administering a program of intramural sports for all age levels.

404C History and Principles of Physical Education (4)

Prereq: Zool. 301, Human Anatomy and 345. History of sports and physical education from ancient to modern times. Principles underlying physical education in modern program of education.

406 Organization and Administration of Physical Education (5)

Organization and administration of physical education, intramural, athletic and recreation programs in elementary and secondary schools.

409C Tests and Measurements (4)

Method of organizing, administering and evaluating tests in health, physical education and athletics; practice in handling test data by elementary statistical methods.

449C Community Recreation (4)

History of play movement, programs and program building, administration of playgrounds, community centers and recreational activities.

HISTORY

Note: 101, 102, and 103 may be taken in any sequence.

101 Western Civilization in Modern Times, 1450-1648 (4)

Renaissance, Reformation, origins of national state system, diplomacy and imperialism as applied to Portugal, Spain and Hapsburg Empires, and commercial and scientific revolutions.

102 Western Civilization in Modern Times, 1648-1848 (4)

Absolutism, constitutionalism, operation of coalition diplomacy and imperialism as applied to France and Britain; westernization of Eastern Europe, enlightenment, French Revolution, agricultural, commercial and industrial revolutions and growth of ideologies—liberalism, socialism and nationalism.

103 Western Civilization in Modern Times, 1848-Present (4)

Continued industrial revolution and spread of liberalism, socialism and nationalism; rise and fall of German bid for power in 2 world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of western empires in Africa and Asia.

Note: 211, 212, and 213 may be taken in any sequence.

211 History of the United States, 1607-1828 (4)

Political, diplomatic, social and economic development of American history. Covers 1607 to 1828: colonial America, founding of the new nation and early national period. (Cassette tapes are used for this course; write for information concerning deposit required.)

212 History of the United States, 1828-1900 (4)

Political, diplomatic, social and economic developments of American history. Covers 1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction and impact of expanded Industrial Revolution.

213 History of the United States, 1900-Present (4)

Political, diplomatic, social and economic development of American history. Covers 1900 to present: progressive movement, WW I, prosperity and depression, WW II and problems of cold war era. (This course makes extensive use of cassette tapes requiring a security deposit of \$18; a refund

of \$15 will be made when the tapes are returned in good condition.)

317A Ohio History to 1851 (4)

Ohio to 1851: prehistoric Ohio; early exploration, settlement, government; statehood and economic development. Formation of political parties, anti-slavery movement, constitutional change. Biographical sketches.

317B Ohio History Since 1851 (4)

Ohio since 1851: pre-Civil War politics, Civil War. Economic and political transition during post-Civil War. 20th century problems. Biographical sketches.

HOME ECONOMICS

128 Introduction to Nutrition (3)

Relation of foods and nutrition to growth, development and maintenance of health. Development of good food habits for children and adults.

180 Furnishing Today's Home (3)

Practical and esthetic study of home furnishings, including basic art qualities, studies in color and design, materials used in furnishings, selection and arrangement of furniture and accessories.

315 Elementary Textiles (4)

Fundamentals of textiles including study of textile fibers, yarns, fabrics and finishes with reference to production, processing use and care.

390 Family Consumer Economics (3)

Management of personal and family financial problems. Retailing activities as they affect role of consumer.

HUMANITIES - See English**INTERPERSONAL COMMUNICATION**

210 Parliamentary Procedure (2)

Study and practice in both theory and procedures by which organizations are run according to rules of order.

425 Direction of Forensic Programs (3)

Prereq: 103, Public Speaking, 217, Forensic Workshops — Debate or Individual Events, or perm. Study in curriculum, coaching, budgeting, judging, public relations, professionalism and tournament management. Practical application in university and high school forensic programs.

JOURNALISM

250A Advertising Principles (5)

Major factors in development of advertising programs.

441 Magazine Feature Writing (4)

Prereq: 231, News Editing, and 333, Newspaper Reporting, 15 hrs English or perm. Writing and marketing factual magazine features articles of various types. Finding subjects, securing photographs, writing articles and surveying markets.

442 Advanced Magazine Feature Writing (3)
 Prereq: 441. Writing and marketing magazine articles. Emphasis on specialized markets.

490 Independent Study (1-4)

Prereq: permission. Topic selected by student in consultation with faculty member. The amount of credit varies from 1 to 4 hours. May be repeated to 15 hours' credit. A study proposal must be submitted with the application.

LIBRARY MEDIA TECHNOLOGY

101 Introduction to Libraries and Library Technology (3)

General introduction to libraries and their organization. Designed for students interested in employment as library technical assistants in special, school, public or college libraries.

LIBRARY SCIENCE

303 Library Science The School Library - Media Center (5)

The course covers the methods and materials required for organizing and developing school media center services. Non-print and print materials are covered as well as programs carried out in a center with the students and faculty. It is a course which can satisfy one of the requirements for school media certification.

MANAGEMENT

493 Readings (1-15)

Prereq: permission. Readings in selected fields of management and organizational behavior. Topics selected by student in consultation with faculty member. The amount of credit varies from 1 to 15 hours. A study proposal must be submitted with the application.

MARKETING

301 Marketing Principles (4)

Prereq: Econ 101 or equiv. Principles of marketing management with emphasis on practices and problems of marketing manager and environment in which he operates supplemented with business cases.

497 Readings (1-15)

Prereq: permission. Readings in selected fields of marketing. Topics selected by student in consultation with faculty member. The amount of credit varies from 1 to 15 hours. A study proposal must be submitted with the application.

MATHEMATICS

011 Elementary Algebra (5)

For students with no high school algebra.

113 Algebra (5)

Prereq: at least 1 yr h.s. algebra. Review topics in high school algebra including properties of rational field and real numbers. Graphs, relations and functions, composite and inverse functions, theory of equations and mathematical induction and inequalities.

115 Introduction to Mathematics (5)

Prereq: 3 yrs. high school math. This is a precalculus course. It prepares the student for taking freshman calculus in college. Real numbers and their properties, functions, and graphs, exponential, logarithmic and polynomial functions, equations of higher degree, mathematical induction, progressions, complex numbers.

116 Analytic Trigonometry (2)

Prereq: 2 yrs h.s. math. Trigonometric functions and their properties, identities, equations and applications. Designed as preparation for calculus.

120 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Selected topics from various areas of mathematics, intended to help students to acquire an appreciation of the subject. For elementary education majors and others needing a terminal course in mathematics.

121 Foundations of Elementary Mathematics (5)

Prereq: 2 yrs h.s. math. Topics related to mathematics for elementary school. Emphasis on number systems and geometry. 120 is not a prerequisite. For elementary education majors and others needing a terminal course in mathematics.

163A Introduction to Calculus (4)

Prereq: 2 yrs h.s. math or 113 or equiv. Presents survey of basic concepts of calculus. A sequence for students who want an introduction to calculus but do not need the depth of Math 263AB.

230 Foundations of Geometry (5)

Prereq: 113, or 4 yrs h.s. math, or perm of math dept. Introduction to axiomatic mathematics via 2 finite geometries and a variety of interpretive models. Develops plane Euclidean and non-Euclidean geometries in rigorous fashion from a modified Hilbert axiom system.

263A Analytic Geometry and Calculus (5)

Prereq: 113, and 116, 130, Plane Analytic Geometry or 4 yrs h.s. math or perm of math dept. 263A-B is a basic introduction to calculus with emphasis on techniques and their applications. Topics covered: functions and limits, differentiation and integration, analytic geometry, transcendental functions.

Ohio University Extension Division

Independent Study

APPLICATION FOR ENROLLMENT

SOCIAL SECURITY NUMBER _____

Mr. _____
Mrs. _____
Miss _____

LAST NAME _____ FIRST NAME _____ MIDDLE OR MAIDEN NAME _____

Present Address

NUMBER _____ STREET _____ CITY _____ STATE (ZIP) _____ COUNTY _____

Telephone Number

NUMBER _____ AREA CODE _____

Permanent Address

NUMBER _____ STREET _____ CITY _____ STATE (ZIP) _____ COUNTY _____

Telephone Number

NUMBER _____ AREA CODE _____

Marital Status

Citizenship _____

Occupation

Date of Birth _____

What program are you registering for? (please check)

Do you expect to apply this credit to a degree? yes _____ no _____

Do you want to enroll under the pass-fail option? yes _____ no _____

If yes to either question, written permission from your academic dean should be given below or sent by separate letter to the Independent Study Office. (Ohio University students should use permission slips available in Dean's office.)

SIGNATURE	TITLE	INSTITUTION
EDUCATION		
Name and Location of Institution	Dates Attended From To	No. of College Credits (Sem. or Qtr.) earned
High School		
College or University		

Purpose of Enrollment (please check most appropriate).

Degree Create-Owner Institution
Teacher Certification

Owner Please specify

Are you currently enrolled in Independent Study at Ohio University?

If yes, what course?

Have you previously enrolled in Independent Study at Ohio University?

If yes, what course?

Do you have External Student Status with the Independent Study Office?

Please give any deadline, such as graduation, you expect to meet.

If you are taking Independent Study courses, do you want airmail service?
(See Bulletin for rates.)

FEES

Independent Study Courses

Independent Study Projects

Course Credit by Examination

Ohio Residents

\$17.50

\$17.50

\$ 7.50

Non-residents

\$20.00

\$20.00

\$ 7.50

Enclose a check or money order payable to Ohio University for the required fee and mail to Independent Study, Tupper Hall, Ohio University, Athens, Ohio 45701.

Amount enclosed:

Fee _____
Airmail _____ (Independent Study Courses)

(not necessary in immediate region)

Total _____

In signing this application I agree to abide by the policies governing Independent Study found in the current *Bulletin*.

DATE

SIGNATURE

Course: Department Number _____

Title _____

Credit Hours _____

Prerequisites: How have you satisfied any prerequisites listed for the course(s)?

(Independent Study courses and Projects only)

Is this the first time you are enrolling for the course(s)? yes _____ no _____

If you are an Ohio University student, what college are you in? _____ Class Rank _____

If you are not an Ohio University student, have you secured permission from the college where you plan to use the credit? yes _____ no _____

If you are a high school student, have you secured a written recommendation from your school principal or guidance counselor? yes _____ no _____

(over)

263B Analytic Geometry and Calculus (5)
 Prereq: 263A or equiv. Continuation of 263A.

320 Teaching of Mathematics in Secondary School (5)

Orientation of professional mathematics education on secondary school level. Analysis of basic ideas of algebra and geometry. Methods of presenting topics in these subjects to secondary school students. Not counted toward math major.

MUSIC

321 History and Literature of Music (3)

Prereq: 103, Music Theory or permission. Surveys musical styles of the Western world from ancient Greece to the middle of the Renaissance. Equipment for playing audio tapes (either reel or cassette) is required. A refundable tape deposit of \$7.00 must be added to the enrollment fee.

PHILOSOPHY

101 Fundamentals of Philosophy (5)

Prereq: Jrs and srs not excluded. Basic problems and concepts in philosophy.

120 Principles of Reasoning (4)

Prereq: Jrs and srs not excluded. Use of evidence in establishing reliable conclusions.

130 Introduction to Ethics (4)

Discussion of classic and/or modern philosophical views of human values, ideals and morality. Provides an introductory survey of some of the main problems, concepts and results of ethics including selected philosophers of the past and present. Available September, 1974.

301 Introduction (3)

Prereq: Not open to those who have had 101. Analysis of typical philosophical problems arising in study of nature, society and religion for purpose of developing a thoughtful and consistent intellectual perspective.

PHYSICAL EDUCATION - See Health, Physical Education and Recreation

PHYSICAL SCIENCE

101 Physical World (3)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun and galaxies.

102 Physical World (3)

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of heat, nuclear physics, atomic physics and chemistry. Topics in chemistry include classification of elements, molecules, chemical reactions, solutions and large molecules, including plastics and DNA.

103 Physical World (3)

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of meteorology and geology. Topics in meteorology include atmosphere, winds, clouds, storms and weather. Topics in geology include rocks and minerals, gradation, earthquakes, continental drift and the ocean.

PHYSICS

Note: These courses carry no laboratory credit unless one additional hour is earned in a campus laboratory course.

201 Introduction to Physics (3)

1st course in physics; open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Mechanics of solids and liquids, heat and thermodynamics.

202 Introduction to Physics (3)

Prereq: 201. Continuation of 201. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Includes electricity, magnetism, waves, sound, light, and relativity.

203 Introduction to Physics (3)

Prereq: 202. Continuation of 202. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Includes quantum, atomic and nuclear physics.

PSYCHOLOGY

101 General Psychology (5)

Introduction to psychology dealing primarily with learning, motivation and sensory processes.

121 Elementary Statistics for the Behavioral Sciences (5)

Prereq: 101 and Math 113 or 3 yrs h.s. mathematics. Measures of central tendency, variability, correlation and simplest tests of hypotheses. Available September, 1974.

131 Psychology of Adjustment (4)

Prereq: 101. Dynamics, development and problems of human adjustment.

173 Child and Adolescent Psychology (5)

Prereq: 101, not for students with EdEd 200. Behavior from infancy through adolescence.

275 Educational Psychology (5)

Prereq: 101 and 121 or equiv. Psychological foundations of education, with major emphasis upon learning, transfer, motivation and evaluation.

332 Abnormal Psychology (5)

Prereq: 101, jr or sr rank. Behavior disorders, their cause and effects on person, family and society.

QUANTITATIVE METHODS**201 Introduction to Probabilities and Statistics (4)**

Prereq: 200. Introduction to Business Data Processing. Theoretical distributions, sampling, estimation (point and interval), hypothesis testing, simple regression and correlation.

RADIO-TELEVISION**106 Introduction to Radio-Television (4)**

Organization, structure and function of broadcasting as a medium of mass communication.

SOCIOLOGY**302 Principles of Sociology (5)**

Nature of human society and factors affecting its development. Introduction to fundamental concepts of sociology: culture, personality, groups, institutions. (Not open to students who have had 101, Introduction to Sociology.)

327 Sociology of Education (4)

Prereq: 101, Introduction to Sociology, or 302. School as social institution in relation to community and development of child; comparative systems of education; sociology of learning and teaching.

351 Elementary Research Techniques (4)

Prereq: 8 hrs. Research techniques in sociology. Research design; collection, recording and analysis of data.

THEATER**499 Independent Readings (1-12)**

Prereq: permission. The amount of credit varies from 1 to 12 hours; course may be repeated for a total of 12 hours. The student selects a topic to study and write on under the direction of a professor. A study proposal must be submitted with the application.

SPEECH - See Interpersonal Communication**UNIVERSITY COLEGE****Effective Study Skills**

Developing effective skills in the areas of reading, writing, and studying is critical to success at the university. This course focuses on the art of critical reading and critical thinking, psychological and sociological factors which influence learning, learning resources, means for improving your studying, and a strategy for getting involved in your education. This course is noncredit toward a degree with the fee based on that of a 1 qtr. hr. course. (A cassette tape is used for this course; a required deposit of \$1 will be refunded when the tape is returned in good condition.)

ZOOLOGY**101 Principles of Biology (5)**

(See Botany 101)

103 Human Biology (4)

Effect of man on ecosystem. Emphasis on contraceptive technology and research, population pressures, pollution problems and drug abuse discussions with emphasis on drug pharmacology and recent research with selected drugs. (Cassette tapes are used in this course; \$4 of the required deposit of \$5 will be refunded when the tapes are returned in good condition.)

345 Human Physiology (4)

Prereq: 300, Elements of Anatomy and Histology or 301, Human Anatomy. Functions of various systems as applied to the human. Special reference to physiological adaptations to environment and regulatory functions. For education, medical technology, physical education and prephysical therapy students only.

382 Topics in Zoology (1-3)

The student selects a topic to study and write on under the direction of a professor. The professor and student must agree on the topic and breadth. There is no examination and the grade is determined by the quality of the paper or student participation. The amount of credit varies from 1 to 3 hours; students enrolling for 3 hours would be expected to do a more complex project or one that might be more in depth. A study proposal must be submitted with the application.

482 Topics in Zoology (1-6)

Prereq: 20 hrs. of zoology, including 203, Principles of Zoology. The student selects a topic to study and write on under the direction of a professor. The professor

and student must agree on the topic and breadth. There is no examination and the grade is determined by the quality of the paper or student participation. The amount of credit varies from 1 to 6 hours; students enrolling for 5 or 6 hours would be ex-

pected to do a more complex project or one that might be more in depth. This type of course would be of value to science teachers or students with some background. A study proposal must be submitted with the application.

INDEPENDENT STUDY PROJECTS

A description of the nature of the independent study project option is given on page six of this *Bulletin*. This section gives the specific policies and procedures which apply to Independent Study Projects. You should also read carefully the section on "General Information" before enrolling.

Courses

You may request that the Independent Study office try to arrange an independent study project for you in any undergraduate course offered by Ohio University except those that are available as independent study courses. There is a list of the courses available as Independent Study Courses beginning on page seven of this *Bulletin*. A complete listing of the undergraduate courses offered by Ohio University is contained in the *Ohio University Bulletin*. The *Ohio University Bulletin* is often available in local libraries or you may request a listing of the undergraduate courses available in particular areas from the Independent Study office.

How to Enroll

You must enroll using the application found in the centerfold of this *Bulletin* before the Independent Study office will attempt to arrange for the project. The application, together with a check or money order payable to Ohio University for the course fee should be mailed to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

The fee is \$17.50 per quarter hour for Ohio residents and \$20.00 per quarter hour for non-residents (see the section on "Fees" under "General Information"). If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Independent Study. If you are currently enrolled at another institution of higher education or if you plan to trans-

fer the credit earned, you should obtain written permission from the college that is to accept the credit. Others do not need any special permission.

Study Proposal

After reading the description of the course you would like to take using the Independent Study Project option you may either submit a study proposal with your application which outlines how you propose to meet the course requirements, or you may elect to have the instructor structure your project. If you submit a study proposal that is not consistent with the course requirements it may be rejected or modified by the instructor.

Grades

The method of grading will vary with each project. Final grades are reported on an A to F scale. Plus and minus signs may be reported together with the letter grade, for example, B+. A final grade report will be sent to you at the same time the grade is reported to the Office of Student Records. See the "General Information" section for information on the pass-fail option.

Time Limit

You are allowed one year from the date of enrollment to complete an Independent Study Project. If the work has not been completed in that length of time, an extension of three months can be requested. When approved, the fee for an extension of time is \$5.00. In certain cases a second extension may be granted. If a student fails to apply for an extension before his enrollment expires and he is withdrawn, a reinstatement fee of \$10.00 in addition to the extension fee must be paid. Reinstatements can be authorized only during the three month period following the expiration of the initial enrollment.

Fee Refund Policy

If your Independent Study Project cannot be arranged your fee will be refunded in full. If you request withdrawal within two months from the date of your enrollment and no consultation or evaluation has been performed by the instructor, other than that involved in establishing the study proposal, one-half of the course fee will be returned. If the instructor has been involved in additional consultation or evaluation, there will be no refund. No refunds will be authorized after two months from the date of enrollment.

Transfers

You are permitted to change your registration once to one other regularly offered independent study course or course credit by examination during the first six months of enrollment. You must pay the difference in fees, if any. The amount transferred to the new fee will be the same amount that you would be entitled to as a refund during the first two months of enrollment (see the section on "Fee Refund Policy"). No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original registration remains effective for all transfers.

COURSE CREDIT BY EXAMINATION

The nature of the Course Credit by Examination Program is explained on page six of this *Bulletin*. This section of the *Bulletin* gives information about the specific policies and procedures for Course Credit by Examination along with a list of courses available in this option. You should also read carefully the section on "General Information" for the general policies which apply to this program. When you register for Course Credit by Examination you will receive a brief syllabus containing a short course description, a list of the required textbooks, and information on the nature of the examination. You will be responsible for preparing for the examination on your own. If you feel you need the help of a professor, you should consider an independent study course or an independent study project.

How to Enroll

Select the course or courses for which you wish to enroll from the list of courses available in the Course Credit by Examination Program and complete the enrollment form in the centerfold of this *Bulletin* and mail it to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

A check or money order payable to Ohio University for the course fee should be included. The fee is \$7.50 per quarter hour. If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Course Credit by Examination. If you are currently enrolled at another institution of higher education or if you plan to transfer the credit earned, you should obtain written permission from the college that is to accept the credit. Others do not need any special permission.

Special Course Credit by Examination

Special arrangements can sometimes be made for Course Credit by Examination in courses not listed here. The Independent Study office will try to make arrangements for a special examination in any course listed in the *Ohio University Bulletin-Undergraduate Catalog*. If you wish to have the Independent Study office try to arrange such a special examination, you must enroll and pay the fee for course

credit by examination in the usual manner. If the Independent Study office is unable to arrange for your examination your fee will be refunded in full.

Grades

The usual letter grades of A to F are given with plus and minus signs often used together with the letter, for example, B+. Failures are not reported to the Office of Student Records and will not appear on your record. Your examination grade will be reported to you by mail about ten days after examination. See the "General Information" section for information about the pass-fail option.

Examinations

If you reside near an Ohio University campus you may take your examination at that campus (see the list on page eight). Others can arrange to have their examinations proctored at another college or university or, if it is more convenient, at a local school. Ohio University reserves the right to reject a proposed examination supervisor. Detailed information about examination procedures will be included with your enrollment material.

Repeating an Examination

With approval of the instructor (and the academic dean, if you are an Ohio University student) you are permitted to repeat an examination. However, you must wait six weeks before taking the second examination. In order to be eligible to repeat, you will have to register again and pay the required fee.

Fee Refund Policy

Regular Course Credit by Examination Offerings - You will receive a full refund if you are refused enrollment. If you withdraw within one month of the date of your enrollment, the course fee less \$10.00 will be refunded. No refunds will be given after one month from the date of enrollment.

Specially Arranged Course Credit by Examination - You will receive a full refund if you are refused enrollment. If you withdraw within one month of the date of your enrollment, the course fee less \$15.00 will be refunded. No refunds will be given after one month from the date of enrollment.

Transfers

You are permitted to change your registration once to another regularly offered independent study offering during the first three months of enrollment. You must pay the difference in fees, if any. The amount transferred to the new fee will be the same amount that you would be entitled to as a refund during the first month of enrollment. No refund of the original fee will be made. Fees cannot be transferred

from one student to another or from independent study to campus study. The date of the original enrollment remains effective for all transfers.

Time Limit

You can take the examination whenever you are prepared. The examinations usually last three hours. You must take the examination within six months of your enrollment date.

LIST OF COURSES

This list contains the courses available on a regular basis under the Course Credit by Examination option at the time this *Bulletin* was printed. Periodic supplements to this *Bulletin* will note any courses added or deleted. A list of Independent Study Courses appears elsewhere in this *Bulletin*. The prerequisites listed in this section are simply intended to give you guidance in determining the background necessary to take the examination.

ACCOUNTING**101 Managerial Accounting (4)**

Prereq: Econ 101. Uses of accounting information for making managerial decisions.

102 Managerial Accounting (4)

Prereq: 101. Continuation of 101.

ARCHAEOLOGY**201 Introduction to Archaeology—Egypt (5)**

Open to students who have had 203 and/or 352, as well as to beginners. Aims, methods and techniques; general types of archaeological work and excavation.

203 Introduction to Archaeology—Rome (5)

Similar to 201, but with emphasis on Roman sites and antiquities. Open to students who have had 201 and/or 352, as well as to beginners.

352 Archaeology of Greece (5)

Prereq: 201 or 203; or 18 hrs foreign language; or 12 hrs history or art history. Archaeology of Greece and Aegean Islands, with emphasis on Minoan and Mycenean civilizations.

ART HISTORY**311 History of Painting and Sculpture (3)**

This beginning course in the Art History survey places prime emphasis on the differentiation of cultures as shown through their art. Periods such as the Old Kingdom, Greek and Roman will be covered.

312 History of Painting and Sculpture (3)

The second part of the Art History survey covers the art of the Medieval and Renaissance Periods.

313 History of Painting and Sculpture (3)

The last section of the three-part Art History sequence on painting and sculpture deals with art from the Baroque era to the present.

Examinations in other art history courses are available. Request a complete listing. Information concerning previous work in art history must be submitted.

AVIATION**110 Primary Ground Instruction (4)**

40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction and performance data to meet requirements of private pilot's written exam.

310 Commercial Ground Instruction (4)

Prereq: private pilot's certificate. 40 hrs ground instruction covering advanced radio navigation, meteorology, FAA regulations, aircraft construction, performance data and instruments to meet requirements of commercial written exam.

315 Flight Instructor Ground Instruction (4)

Prereq: commercial pilot's certificate or perm. 40 hrs review of all previous instruction with emphasis on how to instruct and a breakdown of maneuvers. Covers requirements for flight instructor written exam.

415 Instrument Ground Instruction (3)

Prereq: commercial pilot's certificate or perm. 30 hrs ground instruction on flying solely by reference to instruments to meet requirements of instrument written exam. Included are maneuvers, navigation, meteorology, radio procedures and instrument interpretation.

418 Instrument Instructor Ground Instruction (3)

Prereq: instrument rating. 30 hrs review of instrument course with emphasis on how to instruct instrument flying. Covers requirements for instrument written exam.

421 Airline Transport Ground Instruction (4)

Prereq: instrument rating and multi-engine rating. 40 hrs advanced course placing major emphasis on specific requirements and duties of airline transport pilots in accordance with Federal Aviation Regulations. Provides aeronautical requirements for airline transport pilot written exam.

Examinations in flight courses are available on request. Interested persons should submit a statement concerning their aeronautical knowledge and skills. Flight examinations are given only in Athens.

BLACK STUDIES**107 Introduction to Afro-American History**

(5)

In-depth study of impact of Afro-American people on general development of American society with particular emphasis on Reconstruction and Civil Rights Movement of the 50s and 60s.

111 Introduction to Afro-American Literature (5)

Survey of Afro-American Literature and linkage of general notions and concepts to social conditions during this time period as reflected in the works. Covers the period from 1920 - present.

200 History of Colonialism (5)

Historical analysis of development of colonialism and social psychological factors affecting colonial peoples and/or oppressed nationalities.

201 History of the Black Worker (5)

Analysis of historical role of black labor force in the American economy, with emphasis on pattern of relationships between black workers and general organization of American labor movement.

211 Third World Literature (5)

Survey of various literary trends and authors of 3rd world countries (i.e., Africa, South America, Central America, etc.).

264 Comparative Study of Injustice (5)

Examination of history of oppression of nationalities in Southern Africa and the United States; role of racism as a factor, social and psychological effects on society; parallel study of anti-oppression movements in both worlds.

358 Literature of South Africa (5)

Analysis of novels, plays, poetry, short stories, from historical as well as artistic perspective; examination of forces that produce these documents of history.

BOTANY**101 Principles of Biology (5) (Same as Zool 101.)****BUSINESS ADMINISTRATION****310 Production Management (4)**

Prereq: jr rank. Emphasis on organization of production function and its relationship to other management and functional activities.

BUSINESS LAW**255 Law and Society (4)**

Prereq: jr rank or perm. Conceptual approach to origin, nature, structure, functions and procedures of law with study of contractual relationships.

356 Law of the Management Process (4)

Prereq: 255. Conceptual framework of legal nature of organizations, particularly corporations and partnerships; rights, powers and limits of managers in relation to duties and responsibilities to their organ-

izations, owners, creditors, employes, customers, state and public.

357 Law of Commercial Transactions (4)

Prereq: 255. Legal aspects of commercial paper, consumer credit and bankruptcy.

CHEMISTRY

121 Introduction to Chemistry (5)

Prereq: h.s. algebra, h.s. chemistry desirable. Open to students in all areas. Designed to provide an introduction to chemistry through study of atomic and molecular structure, bonding, states of matter and identification of materials.

122 Chemistry of Solutions (4)

Prereq: 121. Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. For students from colleges of engineering and technology (except chemical engineering), education (except science modular program), other colleges and programs requiring only 1 yr of chemistry.

123 Environmental Chemistry (4)

Prereq: 122 or perm. Designed to survey organic chemistry, biochemistry and nuclear chemistry with emphasis upon day-to-day problems.

CLASSICAL LANGUAGES IN ENGLISH

401 The Life of the Romans (3)

Prereq: 12 hrs or 12 hrs history and antiquities. Family, house, transportation, public amusements. Illustrations from archaeological evidence. No knowledge of Latin required. No credit toward meeting foreign language requirement.

ECONOMICS

101 Principles (4)

Prereq: not open to jrs and srs. Basic theory of national income analysis. Economic problems and economic institutions of society.

102 Principles (4)

Prereq: 101. Continuation of 101. Basic theory and economic analysis of prices, markets, production, wages, interest, rent and profits.

201 Introduction to Economic Analysis (4)

Prereq: not open to fr or to those who have had 101 and 102. Description same as for 101, but content treated at more advanced level.

202 Principles (4)

Prereq: 201. Not open to those who have had 102. Continuation of 201. See 101 for description, but content treated at more advanced level.

303 Microeconomics (4)

Prereq: 101 or 201. Price system as an allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have an understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 101 or 201. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment and capital formation. Students expected to have an understanding of elementary algebra and geometry.

ENGINEERING, CHEMICAL

200 Introduction to Chemical Engineering (4)

Prereq: Chem 122 or 142, Chemical Energetics, Math 263A. Applications of chemistry, physics and mathematics to solution of material and energy balances typical of those encountered in process industries.

302 Chemical Engineering Thermodynamics and Kinetics (4)

Prereq: 200, Math 263C. Application of thermodynamics to chemical engineering problems, including problems in chemical equilibrium for homogeneous and heterogeneous systems, mixtures and pure materials. Applications of chemical kinetics to design of chemical reactor systems.

331 Principles of Engineering Materials (4)

Prereq: Chem 122 or 142, Chemical Energetics. Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic and polymeric materials.

Examinations in other courses in chemical engineering are available. Request a complete listing. Information concerning previous education in chemical engineering must be included.

ENGINEERING, CIVIL, ELECTRICAL AND MECHANICAL

Examination in non-laboratory engineering courses are available. Request a complete listing. Information concerning previous education in engineering must be submitted.

ENGINEERING GRAPHICS**101 Engineering Drawing (3)**

Beginning course for students of engineering and technology and related fields: basic techniques, processes and standards, multi-view drawing, freehand drafting, fundamentals of dimensioning, auxiliary views, section views and sectional assemblies.

ENGINEERING, INDUSTRIAL AND SYSTEMS

Examinations in non-laboratory courses are available upon request.

ENGLISH**301 Shakespeare, The Histories (5)**

Prereq: 5 hrs above 199. History plays.

302 Shakespeare, The Comedies (5)

Prereq: 5 hrs above 199. Comedies.

303 Shakespeare, The Tragedies (5)

Prereq: 5 hrs above 199. Principal tragedies.

314 Romantic and Victorian Literature (5)

Prereq: 10 hrs above 199. Major works, writers and genres of Romantic and Victorian periods.

315 American Literature (3)

Prereq: 5 hrs of English or jr rank. Themes in American literature of 19th and 20th centuries especially relevant to the non-major. Not duplicated by other American literature courses.

321 American Literature to the Civil War (5)

Prereq: 10 hrs above 199. Major works, writers and genres of American literature before the Civil War.

HUMANITIES**107 Humanities—Great Books (3)**

Prereq: fr and soph only. Classics of western civilization leading toward an understanding of cultural heritage. Guidance in critical thinking, reading and writing about those works.

108 Humanities—Great Books (3)

Prereq: fr and soph only. Continuation of 107.

109 Humanities—Great Books (3)

Prereq: fr and soph only. Continuation of 107, 108.

307 Humanities—Great Books (3)

Prereq: jr and sr only. Classics of western civilization, leading toward an understanding of cultural heritage. Guidance in critical thinking, reading and writing about those works.

308 Humanities—Great Books (3)

Prereq: jr and sr only. Continuation of 307.

309 Humanities—Great Books (3)

Prereq: jr and sr only. Continuation of 307, 308.

FINANCE**325 Managerial Finance (4)**

Prereq: Acct 102. Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

455 International Finance (4)

Prereq: 325 or perm. Problems in international finance. Financing international trade and other transactions; foreign exchange market and exchange market and exchange rates; international payments system. Foreign central banking and current developments in international financial cooperation.

GEOGRAPHY**101 Elements of Physical Geography (5)**

Systematic survey of earth-sun relationships, landforms, weather and climate, soils and natural vegetation as background for cultural geography which is recommended to follow this course.

121 Elements of Cultural Geography (4)

Systematic survey of settlement, population and economic activities in geographic studies.

130 Economic Geography (4)

Survey of locational economic patterns and their interrelationships.

GEOLOGY**101 Earth Materials and Structure (4)***

Prereq: high school chemistry is helpful but not required. Nature and distribution of earth materials and their utilization as natural resources; earth structure, earthquakes, mountain building and continental drift. Not open to students who have had 283, Geology for Engineers.

102 Surface Processes and Environmental Geology (4) *

Consideration of those processes and resources that influence man's utilization of surface of the earth. Not open to students who have had 283, Geology for Engineers. It is recommended that students who plan to take both 101 and 102 take 101 first.

103 Elements of Geology, Historical (4)

Prereq: 102. Earth history, emphasizing geologic history of North America.

*The laboratory portion of the examination must be taken on the Athens campus.

GOVERNMENT**101 American National Government (4)**

Constitutional basis and development, political processes and organization of American national government.

102 American National Government (4)

Prereq: 101. Continuation of 101. Concerned with administration and policy making processes of national government in selected areas, i.e., welfare, civil rights, defense, etc.

331 Comparative Government (4)

Government and politics of Great Britain and another Commonwealth country.

HEALTH, PHYSICAL EDUCATION AND RECREATION**202C Personal and Community Health (4)**

Practices and appreciation of means whereby health of individual and group may be maintained.

227C First Aid (3)

Principles and practices of American Red Cross first aid. Standard certificate is granted upon completion of an optional one day campus workshop.

HEARING AND SPEECH SCIENCES**108 Introduction to Speech Disorders (3)**

Symptoms, causes, effects and evaluation of disorders of speech, voice and language.

310 Language Development (5)

Prereq: 309, Phonetics. Provides foundation in normal speech and language development. Development of meaning, symbolic representation, morphology and syntax.

313 Respiratory and Phonatory Mechanisms (3-4)

Structures, musculature and functions involved in respiration, phonation, resonance and articulation for speech.

314 Articulatory and Auditory Mechanisms (3-4)

Prereq: 313. Structures, musculature, functions and neurology involved in audition and speech.

350 Speech Science (3-4)

Physical properties of speech signal. Analysis of speech and speech reception.

Chairman's permission is required for the following two courses:

415 Stuttering (5)

Prereq: HSS majors only; 9 hrs psychology. Consideration of causes, types and effects of stuttering. Evaluation of stuttering. Practical consideration of therapy for stutterers, with emphasis on children's problems.

424 Neuropathologies of Speech and Language (3-4)

Prereq: 313, 314. Types, causes and syndromes of more significant pathologies of speech and language. Particular attention paid to neurological disorders.

HISTORY

Note: 101, 102, and 103 may be taken in any sequence.

101 Western Civilization in Modern Times (4)

Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy and imperialism as applied to Portugal, Spain and Hapsburg Empires, and commercial and scientific revolutions.

102 Western Civilization in Modern Times (4)

Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy and imperialism as applied to France and Britain; westernization of eastern Europe, enlightenment, French Revolution, agricultural, commercial and industrial revolutions and growth of ideologies—liberalism, socialism and nationalism.

103 Western Civilization in Modern Times (4)

Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism and nationalism; rise and fall of German bid for power in 2 world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of western empires in Africa and Asia.

111 The Origins of Western Civilization (4)

Birth of civilization in Near East, culture of Greece and Rome, coming of Christianity and medieval European states surveyed. Emphasis upon cultural contributions of these earlier societies to modern western civilization.

211 American History to 1828 (4)

Political, diplomatic, social and economic development of American history. Covers 1607 to 1828: colonial American, founding of the new nation and early national period.

Note: 211, 212, and 213 may be taken in any sequence.

**212 History of the United States,
1828-1900 (4)**

Political, diplomatic, social and economic developments of American history. Covers 1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction and impact of expanded Industrial Revolution.

213 History of the United States since 1900 (4)
Political, diplomatic, social and economic development of American history. Covers 1900 to present: progressive movement, WW I, prosperity and depression, WW II and problems of cold war era.

**329A Ancient History—Near Eastern
Civilizations (4)**

Prehistoric eras, origins of Mediterranean civilizations, problems of ancient chronology, civilizations of Sumerians, Babylonians, Egyptians, Assyrians, Biblical Hebrews and Persians. Stresses archaeological and literary sources, comparative social and religious concepts, acculturation, contributions to western civilization.

**329B Ancient History—Hellenic Civilization
(4)**

Aegean prehistory, Minoan civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of the polis, Athenian society and culture, Persian and Peloponnesian Wars, political history of Greece to Alexander. Stresses archaeological sources, mythology and drama, Hellenic contributions to western civilization.

**329C Ancient History—Roman Civilization
(4)**

Early peoples of Italy, Etruscans, constitutional development of the Republic, growth of the empire, the civil wars, history of the principate to Constantine. Stresses archaeological sources, Latin literature, Roman life and institutions, Roman contributions to western civilization.

HOME ECONOMICS

390 Family Consumer Economics (3)

Management of personal and family financial problems. Retailing activities as they affect role of consumer.

HUMANITIES - See English

INDUSTRIAL TECHNOLOGY

115 Metal Fabrication (4)*

Production practice, including cutting, forming and joining of metals.

216 Metal Machining (4)*

Prereq: EG 101. Operation of cutting, grinding and electrical discharge machines, with emphasis on factors affecting quality control during production.

220 Small Engines (3)*

Assembly, adjustment and gauging procedures, as applied to small 2-cycle and 4-cycle gasoline engines.

250 Wood Industry (5)*

Prereq: EG 101. Woodworking procedures and technology, including machine operation.

320 Hydraulic Controls (3)*

Prereq: Phys 201. Application of hydraulic principles to common industrial utilizations for power transmission and mechanism control. Emphasis on study of hardware and circuitry.

332 Electronics (5)*

Prereq: Phys 202. Experimental activity to develop proficiency in utilizing test instruments; learning characteristics of components commonly employed in simple circuits.

*A performance evaluation on the Athens campus is required in addition to a written examination.

INTERPERSONAL COMMUNICATION

335 Bases of Speech Communication (3)

Theory underlying source and message variables with emphasis upon linguistic, acoustical and psychological dimensions of language in speech communication.

450 Introduction to Rhetorical Theory (3)

Prereq. 103, Public Speaking or 215. Argumentation and Debate. Ancient and modern rhetorical concepts and theories; emphasis on relationship of rhetoric to poetics, ethics, law and modern communication theory.

JOURNALISM

250A Advertising Principles (5)

Major factors in development of advertising programs.

311 History of American Journalism (5)

Prereq: major or perm. Development of newspaper, magazine and broadcast journalism from colonial period to present. Social, political, economic and mechanical aspects.

MARKETING

301 Marketing Principles (4)

Prereq: Econ 101 or 201 and jr rank. Principles of marketing management with emphasis on practices and problems of marketing manager and environment in which he operates supplemented with business cases. Tapes are available for students taking this examination. There is an \$8.00 deposit required. \$6.00 of the deposit will be returned when the tapes are returned in

good condition. Students on campus may listen to tapes in the language laboratory.

MATHEMATICS

113 Algebra (5)

Prereq: at least 1 yr h.s. algebra. Review topics in high school algebra including properties of rational field and real numbers. Graphs, relations and functions, composite and inverse functions, theory of equations and mathematical induction and inequalities.

116 Analytic Trigonometry (2)

Prereq: 2 yrs h.s. math. Trigonometric functions and their properties, identities, equations and applications.

120 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Selected topics from various areas of mathematics, intended to help students to acquire an appreciation of the subject.

163A Introduction to Calculus (4)

Prereq: 2 yrs h.s. math or 113 or equiv. Presents survey of basic concepts of calculus. A sequence for students who want an introduction to calculus but do not need the depth of Math 263ABC.

163B Introduction to Calculus (4)

Prereq: 163A. Continuation of 163A.

207 Introduction to Number Theory (5)

Prereq: 113, or 4 yrs h.s. math. Introduction to one of the simplest yet most challenging branches of mathematics. Topics include mathematical induction, prime factorization, Euclidean algorithm, Diophantine equations, congruences and divisibility.

211 Elementary Linear Algebra (5)

Prereq: 113 or 4 yrs h.s. math. Matrix as an array. Elementary row operations. Invertible matrices and systems of linear equations. Vector spaces and linear dependence and independence of vectors. Basis and dimension. Linear transformations. Determinants.

214 Elementary Abstract Algebra (5)

Mappings. Relations. Definitions and examples of groups. Groups of rotations. Cyclic groups. Lagrange's Theorem. Fields. Polynomials over fields.

263A Analytic Geometry and Calculus (5)

Prereq: 113, and 116, 130, Plane Analytic Geometry or 4 yrs h.s. math or perm of math dept. 263-A-B-C is a basic introduction to calculus with emphasis on techniques and their applications. Topics covered: functions and limits, differentiation and integration, analytic geometry, vectors,

transcendental functions, polar coordinates, solid analytic geometry, partial differentiation, multiple integrals, infinite series.

263B Analytic Geometry and Calculus (5)

Prereq: 263A or equiv. Continuation of 263A.

263C Analytic Geometry and Calculus (5)

Prereq: 263B. Continuation of 263-A-B.

340 Differential Equations (5)

Prereq: 263C. Ordinary differential equations and related topics.

410 Matrix Theory (5)

Prereq: 263C. Matrix algebra, matrix solutions of linear equations, linear dependence and independence, rank and equivalence, determinants, eigenvalues and eigenvectors. Intended primarily for engineering and science students and not recommended for persons who have taken 211.

MODERN LANGUAGES

For Ohio University students, written permission to take an examination must be obtained from the Chairman of the Department of Modern Languages. This permission is given in only very exceptional circumstances: for example, it can usually be given to graduating seniors who cannot finish their language requirement before graduation. CCE credit cannot be given to students who have taken equivalent work in high school. CCE credit cannot normally be given if a student is able to take the course on campus. A number of the examinations in modern languages require the use of a tape recorder and are best administered by a qualified language teacher.

FRENCH

111 Elementary French (4)

Beginning course of a 3-qtr, 1st-yr sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening, comprehension, speaking and writing skills. Basic text and workbook used.

112 Elementary French (4)

Prereq: 111. Continuation of 111. Basic text, workbook and readings used.

113 Elementary French (4)

Prereq: 112. Continuation of 112. Basic text, workbook and readings used.

211 Intermediate French (4)

Prereq: 113 or 2 or 3 yrs high school French. First course of a 3-qtr intermediate level sequence. Intensive review of gram-

mar. Additional readings in French. Supplemental cultural material.

212 Intermediate French (4)

Prereq: 211 or perm. Continuation of 211.

213 Intermediate French (4)

Prereq: 212 or 4 yrs high school French. Reading of selected modern works. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241.

GERMAN

111 Elementary German (4)

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Beginning course of a 3-qtr 1st-yr sequence.

112 Elementary German (4)

Prereq: 111. Continuation of 111.

113 Elementary German (4)

Prereq: 112. Continuation of 112. Continued development of skills of oral and written production and comprehension.

211 Intermediate German (4)

Prereq: 113 or 2 or 3 yrs h.s. German. Continued development of listening comprehension, reading, writing and speaking skills. Grammar review. First course of 3-qtr intermediate level sequence.

212 Intermediate German (4)

Prereq: 211 or perm. Continuation of 211. Emphasis on modern texts.

213 Intermediate German (4)

Prereq: 212 or 4 yrs h.s. German. Modern texts are read. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241.

SPANISH

111 Elementary Spanish (4)

Development of comprehension, speaking and reading skills. Basic grammar. Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Spanish (4)

Prereq: 111. Continuation of 111.

113 Elementary Spanish (4)

Prereq: 112. Continuation of 112.

211 Intermediate Spanish (4)

Prereq: 113 or 2 or 3 yrs h.s. Spanish. Intensive review of grammar. Additional readings in Spanish. Supplemental cultural material. First course of 3-qtr intermediate level sequence.

212 Intermediate Spanish (4)

Prereq: 211 or perm. Continued review. Additional literary readings in Spanish.

213 Intermediate Spanish (4)

Prereq: 212 or 4 yrs h.s. Spanish. Selected readings of 20th century Spanish dramatists, poets, novelists and essayists in Spanish. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241.

APPLIED MUSIC

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

455 Conducting (3)

Prereq: 203, 205. Basic beat patterns, technique of baton and use of left hand. Experience in conducting choral and instrumental ensembles in works suitable for school groups.

MUSIC EDUCATION

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

160 Music Fundamentals (3)

For elementary education majors only.

261 String Methods and Materials (2, max 6)*

Prereq: 103, perm. Instruction in stringed instruments with emphasis on teaching techniques, methods and materials.

263 Wind and Percussion Methods and Materials (2, max 12)*

Prereq: 103, perm. Instruction in wind and percussion instruments with emphasis on teaching techniques, methods and materials.

364 Secondary School Vocal Techniques and Materials (3)

Prereq: 203, 205, 206, each with minimum grade of C; 455. Literature and rehearsal techniques for high school choral groups.

365 Secondary School Vocal Techniques and Materials (3)

Prereq: 364. Continuation of 364.

*Please specify the instrument of your choice.

MUSIC HISTORY AND LITERATURE

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

321 History and Literature of Music (3)
Prereq: 103. History of music with survey of musical literature to 1450.

322 History and Literature of Music (3)
Prereq: 321. History of music with survey of musical literature, 1450-1720.

323 History and Literature of Music (3)
Prereq: 322. History of music with survey of musical literature, 1720 to present.

MUSIC THEORY AND COMPOSITION

Information concerning previous study must be submitted. Examinations are given only in Athens.

101 Music Theory (3)

Prereq: music theory placement examination; music majors only. Melodic, harmonic and rhythmic principles of music and its notation.

102 Music Theory (3)

Prereq: 101. Continuation of 101.

103 Music Theory (3)

Prereq: 102. Continuation of 101 and 102.

201 Harmony (3)

Prereq: music majors only, 103 (minimum grade of C). Harmonic and contrapuntal practices of 18th and 19th centuries, including analysis and composition in smaller forms.

202 Harmony (3)

Prereq: 201. Continuation of 201.

203 Harmony (3)

Prereq: 202. Continuation of 201 and 202.

204 Dictation and Sight Singing (3)

Prereq: music majors only, 103 (minimum grade of C or perm).

205 Dictation and Sight Singing (3)

Prereq: 204 with a minimum grade of C. Continuation of 204.

206 Analysis and Form (3)

Prereq: 202. Harmonic and structural analysis of larger forms.

304 Instrumentation (3)

Prereq: 203. Technical characteristics of instruments of band and orchestra. Arranging for small ensembles.

401 Keyboard Harmony (3)

Prereq: 203. Concentration on functional aspects of piano playing: sight reading, accompanying, transposition, harmonization of melodies, improvisation, keyboard harmony.

PHILOSOPHY

101 Fundamentals of Philosophy (5)

Prereq: jrs and srs not excluded. Basic problems and concepts in philosophy.

120 Principles of Reasoning (4)

Prereq: jrs and srs not excluded. Use of evidence in establishing reliable conclusions.

130 Introduction to Ethics (4)

Prereq: Not open to jrs and srs. Types of ethical theory, bases of moral decision and nature of values.

301 Introduction (3)

Prereq: Not open to those who have had 101. Analysis of typical philosophical problems arising in study of nature, society and religion for purpose of developing a thoughtful and consistent intellectual perspective.

PHYSICAL SCIENCE

101 Physical World (3)*

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun and galaxies.

102 Physical World (3)*

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of heat, nuclear physics, atomic physics and chemistry. Topics in chemistry include classification of elements, molecules, chemical reactions, solutions and large molecules, including plastics and DNA.

103 Physical World (3)*

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of meteorology and geology. Topics in meteorology include atmosphere, winds, clouds, storms and weather. Topics in geology include rocks and minerals, gradation, earthquakes, continental drift and the ocean.

*Students who are able to complete laboratory work on the Athens campus can qualify for an additional hour of credit.

PHYSICS

201 Introduction to Physics (4)*

1st course in physics; open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Mechanics of solids and liquids, heat and thermodynamics.

202 Introduction to Physics (4)*

Prereq: 201. Continuation of 201. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial tech-

nology, botany, geology and premedicine. Includes electricity, magnetism, waves, sound and light.

203 Introduction to Physics (4)*

Prereq: 202. Continuation of 202. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Includes quantum, atomic and nuclear physics.

*Students who cannot complete the laboratory work on the Athens campus should register for three hours of credit.

251 General Physics (5)*

Prereq: Math 263A. Classical and modern physics with calculus and vectors. Newtonian mechanics of solids and fluids.

252 General Physics (5)*

Prereq: 251 and Math 263B. Classical and modern physics with calculus and vectors. Heat and thermodynamics, electricity and magnetism.

253 General Physics (5)*

Prereq: 252. Classical and modern physics with calculus and vectors. Waves (electromagnetic and mechanical), relativistic mechanics, quantum physics, particles, nuclei, atoms and molecules.

*Students who cannot complete the laboratory work on the Athens campus should register for four hours of credit.

PSYCHOLOGY

101 General Psychology (5)

Introduction to psychology dealing primarily with learning, motivation and sensory processes.

173 Child and Adolescent Psychology (5)

Prereq: 101, not for students with EdEd 200. Behavior from infancy through adolescence.

275 Educational Psychology (5)

Prereq: 101 and 121 or equiv. Psychological foundations of education, with major emphasis upon learning, transfer, motivation and evaluation.

310 Motivation (5)

Prereq: 101 and 121. Scientific study of principles of human action with emphasis on motive, emotion and habit.

332 Abnormal Psychology (5)

Prereq: 101, jr or sr rank. Behavior disorders, their cause and effects on person, family and society.

336 Social Psychology (5)

Prereq: 101, jr or sr rank. Behavior of man as influenced by group membership, with emphasis on individual's interaction as basis of change of motives, attitudes and personality.

QUANTITATIVE METHODS

200 Introduction to Business Data Processing (4)

Prereq: Math 163 sequence. Role of computer in a business environment. Introductory study of equipment, applications, flow charting and FORTRAN program language. Concepts of random variables and probability distributions.

201 Introduction to Probabilities and Statistics (4)

Prereq: 200. Theoretical distributions, sampling, estimation (point and interval), hypothesis testing, simple regression and correlation.

REAL ESTATE TECHNOLOGY

101 Principles and Practices I (4)

Basic foundation course in real estate philosophy, theory, economics and administration. Covers elementary physical, legal, locational and economical characteristics of real estate, real estate markets and influences on real estate values.

102 Principles and Practices II (4)

Prereq: 101 or perm. Designed to build on foundation of 101. Covers property ownership and rights, real estate brokerage and construction, marketing and production, land development and construction of buildings and effects of marketing and production systems in our economy.

103 Real Estate Law (4)

Prereq: 101. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and salesmen, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio and zoning.

201 Real Estate Appraising I (4)

Deals with fundamentals of appraising real estate, such as: nature of real property and basic principles of its value, appraisal process, neighborhood and site analysis, building costs and depreciation capitalization and appraisal report.

204 Real Estate Finance (4)

Prereq: 101. Includes institutions, methods, instruments and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government in-

fluence on real estate finance and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

221 Real Estate Seminar (4)

Prereq: 204. Special topics in real estate covered. Areas include professionalism, ethics, salesmanship, human relations, F.H.A. and V.A. financing. The real estate office, advertising, building construction and materials, current issues and problems facing real estate professional also considered.

SECRETARIAL TECHNOLOGY, GENERAL

111 Beginning Shorthand (3)

Fundamental theory, basic principles, elementary vocabulary, beginning dictation and transcription in preparation for speed dictation and transcription in more advanced courses.

112 Intermediate Shorthand (3)

Prereq: 111 or equiv. Continuation of 111 with emphasis on vocabulary, dictation and transcription.

121 Beginning Typewriting (3)

Fundamentals of keyboard techniques and operation of typewriter; emphasis on accuracy.

122 Intermediate Typewriting (3)

Prereq: 121 or equiv. Improvement of speed and accuracy; arrangement of business letters, tables and manuscripts.

SOCIOLOGY

100 Social Problems (4)

Prereq: not open to students with 223, American Society. Sociological analysis of major contemporary social problems and issues. Problems such as militarism, poverty, racism, inequality, cybernation, dehumanization, repression and constraint considered, among others. Theories and research on social structure, social policy and social action.

101 Introduction to Sociology (5)

Prereq: fr or soph rank. Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, groups, institutions.

210 Introduction to Social Psychology (4)

Prereq: 101 or 302. Patterning of conduct through social interaction; functional an-

alysis of individual-group relationships in various organizational contexts; current theory and research in the field.

211 Crowd and Mass Behavior (4)

Prereq: 101 or 302. Collective behavior resulting from social unrest; social contagion; formation and behavior of crowds; cults and sects; panic and disaster behavior; various types of mass behavior; impact upon social institutions.

223 American Society (4)

Prereq: 101 or 302. Not open to students with 100. Sociological interpretation of American society. Institutional order: family, economy, government, education and stratification. Problem of stability of social and cultural systems.

302 Principles of Sociology (5)

Prereq: jr or sr rank. Same as 101, covered in a more intensive manner. Not open to students who have taken 101.

ZOOLOGY

101 Principles of Biology (5)

Principles and concepts of life. Emphasis on principles in cellular biology and elementary biochemistry; classical and modern genetics; evolution and ecology. (Same as Bot. 101.)

103 Human Biology (4)

Effect of man on ecosystem. Emphasis on contraceptive technology and research, population pressures, pollution problems and drug abuse discussions with emphasis on drug pharmacology and recent research with selected drugs.

325 General Genetics (5)

Prereq: 203, Principles of Zoology or Bot 102, Plant Biology. Principles and concepts of genetics as revealed by classical and modern investigation.

345 Human Physiology (4)

Prereq: 300, Elements of Anatomy and Histology or 301, Human Anatomy; not open to fr. Functions of various systems as applied to the human. Special reference to physiological adaptations to environment and exercise. For education, medical technology, physical education and prephysical therapy students only.

INDEPENDENT STUDY FACULTY MEMBERS

Almli, C. Robert, Ph.D., Associate Professor of Psychology
Appel, Margret A., Ph.D., Assistant Professor of Psychology
Arkes, Hal R., Ph.D., Assistant Professor of Psychology
Badger, Irvin P., M.S.C.E., Professor of Civil Engineering
Bain, Nancy R., Ph.D., Assistant Professor of Geography
Baird, Russell N., M.A., Professor of Journalism
Baker, Clyde D., M.S., Curator of Physics Department
Baloun, C. H., Ph.D., Professor of Chemical Engineering
Barrio-Garay, Jose L., Ph.D., Associate Professor of Art
Barstad, Noel K., Ph.D., Assistant Professor of Modern Languages
Beatty, Raymond C., Ph.D., Assistant Professor of Interpersonal Communication
Bolon, Donald S., Ph.D., Associate Professor of Management
Boyse, James A., Ph.D., Associate Professor of Modern Languages
Bradshaw, Homer L., Ph.D., Professor of Psychology
Brophy, William R., M.S., Professor of Brass Instruments
Burkhardt, William R., Ph.D., Assistant Professor of Sociology
Butner, Robert K., Ph.D., Professor of Mathematics
Carlson, Charles V., M.Ed., Associate Professor of Interpersonal Communication
Carrier, Carl E., Ph.D., Associate Professor of German
Chamberlain, C. Kent, Ph.D., Assistant Professor of Geology
Coleman, Horace W., M.F.A., Assistant Professor of English
Collins, Ernest M., Ph.D., Professor of Government
Conkling, P. Leighton, M.M., Professor of Violoncello
Cook, Tiff E., M.S.Ed., Assistant Professor of Health, Physical Education and Recreation
Cox, Howard B., Ph.D., Assistant Professor of Marketing
Cox, James S., M.B.A., (C.P.A.), Assistant Professor of Accounting
Cummins, Suzanne G., M.A., Assistant Professor of General Secretarial Technology
Cutright, James M., J.D., Real Estate
Dabelko, David D., Ph.D., Assistant Professor of Government
Davis, James E., Ph.D., Professor of English
Day, W. A., D.B.A., Professor of Management
Dean, C. Richard, M.A., Assistant Professor of Hearing and Speech Sciences
DeVeau, Burton W., Ph.D., Professor of Economics
Dingle, Ronald S., M.S., Assistant Professor of Health, Physical Education and Recreation
Doxsee, Mary C., M.A., Associate Professor of Home Economics
Draayer, Gerald F., Ph.D., Associate Professor of Economic Education
Drevenstedt, Jean, Ph.D., Associate Professor of Psychology
Dudukovic, Milorad (Mike), Ph.D., Assistant Professor of Chemical Engineering
Eldridge, Klaus E., Ph.D., Associate Professor of Mathematics
Elsbree, Willard H., Ph.D., Professor of Government
Fisher, Stanley P., Ph.D., Professor of Geology
Fleischauer, John F., Ph.D., Assistant Professor of English
Fletcher, Marvin E., Ph.D., Associate Professor of History
Fokes, Joann, Ph.D., Assistant Professor of Speech Communication
Foster, Ted J., Ph.D., Associate Professor of Interpersonal Communication
Freeland, John R., B.S.Ed., Real Estate
Fuller, Francis B., B.S., Associate Professor of Aviation
Gillespie, Mary E., M.S., Assistant Professor of Health, Physical Education and Recreation
Golos, Ellery B., M.A., Associate Professor of Mathematics
Greer, Archie M., M.F.A., Associate Professor of Radio-TV
Grieco, Victor A., Ed.D., Professor of Business Administration
Hagerman, Frederick C., Ph.D., Associate Professor of Zoology
Ham, Richard E., Ph.D., Professor of Hearing and Speech Sciences
Hammood, Abdul W., Ph.D., Assistant Professor of Quantitative Methods
Harper, Michael B., A.B., Assistant Professor of Art
Heaton, David M., Ph.D., Associate Professor of English
Hicks, Lewis F., M.S.M.E., Professor of Mechanical Engineering

Higgins, Charles R., Ed.D., Assistant Professor of Health, Physical Education and Recreation
Houk, Clifford C., Ph.D., Associate Professor of Chemistry
Hultgren, Harry A., Litt. D., Associate Professor of Classical Languages
Hultgren, Shirley A., M.S., Part-time Instructor in Classical Languages
Huntley, Reid D., Ph.D., Assistant Professor of English
Jacoby, David J., M.Ed., Part-time Instructor in Health, Physical Education and Recreation
Jain, Surender K., Ph.D., Professor of Mathematics
Jasper, Samuel J., Ph.D., Professor of Mathematics
Johansson, Ernest H., M.A., Associate Professor of English
Johnson, David A., Ph.D., Associate Professor of Psychology
Jones, John A., Ph.D., Professor of English
Kaneshige, Sally C., A.M., Assistant Professor of Music Theory
Kaufman, Alvin S., Ph.D., Professor of Theater
Kendall, H. B., Ph.D., Professor of Chemical Engineering
Kim, Sung H., Ph.D., Assistant Professor of Government
Klingaman, David C., Ph.D., Professor of Economics
Kuhre, W. William, Ph.D., Associate Professor of English
LeClair, Lowell V., Ph.D., Associate Professor of Education
Lewis, David S., Ph.D., Associate Professor of Music Theory, Clarinet and Saxophone
Lewis, Mary Ann, M.S., Associate Professor of Home Economics
Lindskold, Svenn A., Ph.D., Associate Professor of Psychology
Linnenbruegge, Gertrude R., M.L.S., Assistant Professor of Library Science
Livingston, Adriane M., M.A., Instructor in Afro-American Studies
Lustfield, Charles D., Ph.D., Assistant Professor of Mathematics
Macauley, Ruby M., M.S., Associate Professor of Home Economics
Mace, Joan E., Lecture in Aviation
Malcolm, Paul S., Ph.D., Assistant Professor of Mathematics
Marinelli, Jr., Arthur J., J.D., Associate Professor of Law
Matthews, Judith H., M.S.H.E., Assistant Professor of Home Economics
Maurath, Jerome D., Ph.D., Associate Professor of Psychology
McCauley, Hannah, B.S., Assistant Professor of Library Technology
McQuate, John T., Ph.D., Professor of Zoology
Mechling, Paul P., M.S., Director of Continuing Education, Lancaster Campus
Mikhail, Azmi D., Ph.D., Associate Professor of Finance
Minelli, Charles, M.Ed., Associate Professor of Music
Mowry, David D., M.S., Instructor in Zoology
Navin, Sally L., Ph.D., Assistant Professor of Curriculum and Instruction
O'Neal, John R., M.Ed., Assistant Professor of Health, Physical Education and Recreation
Patterson, Harlan R., Ph.D., Associate Professor of Finance
Peters, Thomas W., M.Ed., Instructor in Journalism
Pettiford, Lindiwe M., M.A., Assistant Professor of Afro-American Studies
Phillips, Freda A., D.P.E., Associate Professor of Health, Physical Education and Recreation
Picard, Fred, Ph.D., Professor of Economics
Pinney, Reba, Ph.D., Assistant Professor of Curriculum and Instruction
Prasad, S. Benjamin, Ph.D., Professor of Business Administration
Prisley, Alexander V., Ph.D., Associate Professor of Government
Reeves, A. Compton, Ph.D., Associate Professor of History
Reichenbach, Barbara J., M.A., Instructor in Modern Languages
Richter, Donald C., Ph.D., Associate Professor of History
Roth, Barry, Ph.D., Associate Professor of English
Ruchti, Warren F., Ph.D., Professor of Philosophy
Sampson, Rodney D., B.A., Instructor in Afro-American Studies
Sarchet, Thomas C., M.S., Professor of Engineering Graphics
Schneider, Duane B., Ph.D., Associate Professor of English
Scholten, James W., Ph.D., Associate Professor of Music
Semsel, George S., M.A., Assistant Professor of Film
Shallop, Jon K., Ph.D., Associate Professor of Hearing and Speech Sciences
Shankar, Hari, M.A., Associate Professor of Mathematics
Shelly, Robert K., Ph.D., Assistant Professor of Sociology

Shipman, James T., M.S., *Professor of Physics*
Smith, Elizabeth H., Ph.D., *Assistant Professor of Philosophy*
Smith, Thomas H., Ph.D., *Associate Professor of History*
Stempel, Guido H., Ph.D., *Professor of Journalism*
Stephenson, Clarence B., M.S., (C.P.A.) *Associate Professor of Accounting*
Stewart, J. David, Ph.D., *Assistant Professor of Philosophy*
Stewart, James, M.M., *Assistant Professor of Music Theory*
Stone, Edward, Ph.D., *Distinguished Professor of English*
Stuchell, Donald V., Ph.D., (C.P.A.), *Assistant Professor of Accounting*
Sutherland, David E., Ph.D., *Assistant Professor of Sociology*
Syracuse, Richard, M.S., *Associate Professor of Piano*
Thio, Alex O., Ph.D., *Associate Professor of Sociology*
Thompson, James H., Ph.D., *Associate Professor of Curriculum and Instruction*
Tilling, James R., M.A., *Instructor in Government*
Trevas, Robert J., Ph.D., *Associate Professor of Philosophy*
Turnbull, Arthur T., M.S., *Professor of Journalism*
Wallace, Atwell M., Ph.D., *Associate Professor of Botany*
Watts, Jr., W. David, M.A., *Instructor in Sociology*
Wehlen, Joseph A., Ph.D., *Assistant Professor of Mathematics*
Weisfelder, Richard F., M.A., *Instructor in Government*
Weissenrieder, Maureen, M.A., *Instructor in Modern Languages*
Wetzel, Richard D., Ph.D., *Associate Professor of Music Literature and History*
Wieman, Robert M., Ph.D., *Professor of Philosophy*
Wilkinson, Owen J., M.A., *Assistant Professor of Health, Physical Education and Recreation*
Wilson, Jerry D., Ph.D., *Assistant Professor of Physics*
Winkler, Robert R., Ph.D., *Associate Professor of Chemistry*
Witters, Weldon L., Ph.D., *Associate Professor of Zoology*
Woolison, Richard L., M.Ed., *Assistant Professor of Health, Physical Education and Recreation*
Woolley, Arthur P., Ph.D., *Assistant Professor of English*
Wrage, Marie-Claire, Ph.D., *Assistant Professor of Modern Languages*

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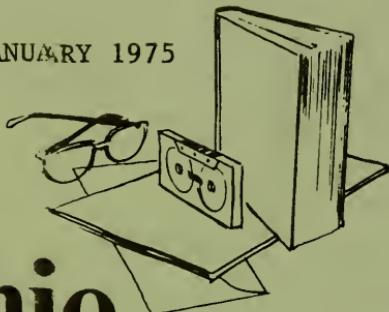
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INDEPENDENT STUDY COURSES

INDEPENDENT STUDY PROJECTS

COURSE CREDIT BY EXAMINATION

INDEPENDENT STUDY • EXTENSION DIVISION

302 Tupper Hall, Ohio University, Athens, Ohio 45701

on-campus edition

successful completion of the examination, you receive a grade and resident Ohio University credit. Failures are not reported and no penalty is incurred. The program provides both the opportunity for you to demonstrate proficiency in a subject and a flexible study option to meet your individual needs and circumstances.

GENERAL INFORMATION

The information contained in this bulletin is designed for the Ohio University student. A more complete bulletin, giving more detailed enrollment procedures and a more complete description of the courses offered, is available for others interested in independent study. You may request this bulletin from the Independent Study Office.

HOW TO ENROLL

Ohio University students:

1. Select the course or courses for which you wish to enroll.
2. Obtain a permission slip from your college office.
3. In the case of special independent study projects only, obtain the permission of the chairman of the department in which the independent study will be offered and fill out the project proposal form.
4. Fill out the independent study application.
5. Submit the permission slips, application, and your check or money order to the Independent Study Office, Tupper Hall 302, Ohio University, Athens, Ohio 45701.

If you are away from the Athens campus the Independent Study Office will attempt to obtain the required permission from your college office.

FEES

Ohio Residents	Non-residents
Independent Study Courses	
\$17.50 per qtr. hr.	\$20.00 per qtr. hr.
Independent Study Projects	
\$17.50 per qtr. hr.	\$20.00 per qtr. hr.
Course Credit by Examination	
\$ 7.50 per qtr. hr.	\$ 7.50 per qtr. hr.

CREDIT

The credit earned in this program is expressed in quarter hours. All credit is considered resident credit at Ohio University and there is no limit to the amount of independent study credit which can be applied to an Ohio University degree. Independent study credit can generally be transferred to other institutions; the accepting institution, however, establishes the policy in this matter. You are therefore urged to make arrangements in advance so that you will know that the credit earned will transfer.

ADMISSION

Independent Study is open to all who can profit from it and formal admission to the university is not required for admission.

ADVISING

All prospective students may consult with the Independent Study staff for assistance in selecting a course. More detailed information about the courses such as textbooks and course content is available and will be sent on request.

PASS-FAIL OPTION

You may enroll for the pass-fail option if you so

indicate at the time of your enrollment. Ohio University students must have the written permission of their academic dean to participate in this option.

COMPLETION OF WORK

You must enroll in sufficient time to complete your work for a specific deadline such as graduation or certification. Ohio University degree candidates should complete all requirements, including the final examination, two weeks before the end of the quarter in which they expect to receive the degree.

TEXTBOOKS

Most courses require the purchase of one or more textbooks. It becomes your responsibility to secure them. All books are available through bookstores in Athens, where they can be most conveniently ordered if you are out of town. You can have the books shipped and be billed for their cost if you request this service.

TRANSCRIPT OF RECORD

A form is provided with the material you will receive upon enrollment which you may use to request directly from the Office of Student Records, Chubb Hall, Ohio University, Athens, Ohio 45701, an official transcript of a course completed. The fee of \$1.00 for each transcript should be sent with the request; the transcript will be sent to the person or institution indicated on the form.

EXAMINATIONS

Most of the independent study options require one or two supervised examinations. If you reside near an Ohio University campus you may take your examination at the nearest campus. Others can arrange to have their examinations proctored at

another college or university, or, if it is more convenient, at a local school. Ohio University reserves the right to reject a proposed examination supervisor. Detailed information about examination procedures will be included with your enrollment material.

LESSON PROCESSING FOR INDEPENDENT STUDY COURSES

Shortly after you enroll you will receive a study guide containing all the required lessons in the course. These written lessons are submitted to the Independent Study Office, Tupper Hall, Ohio University, Athens, Ohio 45701. The time required for grading is generally from one to two weeks. During vacation periods and between quarters some instructors leave campus; thus, some delay may occur at these times.

POSTAGE

The cost of mailing any materials or assignments from the Independent Study Office is covered by the enrollment fee. You are responsible for postage on any material or assignments mailed to the Independent Study Office.

GRADING

The University grading system is used. Letter grades, together with plus or minus signs are used (see also the section on the pass-fail option). A final grade report will be sent to you at the same time the grade is reported to the Office of Student Records. The method of grade determination is usually described in the course material. For course credit by examination failures are not reported and no indication will be made on your official record that you were enrolled.

FEE REFUND POLICY

Independent Study Courses - A full refund is given only when you are refused enrollment. If you request withdrawal within one month from the date of your enrollment, the course fee will be refunded less \$10.00 and \$1.50 per lesson submitted. If you request withdrawal between one and two months from the date of your enrollment, one half of the course fee will be returned, less \$1.50 per lesson submitted. No refunds will be authorized after two months from the date of enrollment.

Independent Study Projects - If your Independent Study Project cannot be arranged your fee will be refunded in full. If you request withdrawal within two months from the date of your enrollment and no consultation or evaluation has been performed by the instructor, other than that involved in establishing the study proposal, one-half of the course fee will be returned. If the instructor has been involved in additional consultation or evaluation there will be no refund. No refunds will be authorized after two months from the date of enrollment.

Regular Course Credit by Examination Offerings - You will receive a full refund if you are refused enrollment. If you withdraw within one month of the date of your enrollment, the course fee less \$10.00 will be refunded. No refunds will be given after one month from the date of enrollment.

Specially Arranged Course Credit by Examination - You will receive a full refund if you are refused enrollment. If you withdraw within one month of the date of your enrollment, the course fee less \$15.00 will be refunded. No refunds will be given after one month from the date of enrollment.

TRANSFERS

Independent Study Courses - You are permitted to change your registration once to another independent study offering during the first six months of enrollment. You must pay the difference in fees, if any.

The amount transferred to the new fee will be the original fee less \$10.00 and \$1.50 per lesson submitted. No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original enrollment remains effective for all transfers.

Independent Study Project - You are permitted to change your registration once to one other regularly offered independent study course or course credit by examination during the first six months of enrollment. You must pay the difference in fees, if any. The amount transferred to the new fee will be the same amount that you would be entitled to as a refund during the first two months of enrollment (see the section on "Fee Refund Policy"). No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original registration remains effective for all transfers.

Course Credit by Examination - You are permitted to change your registration once to another regularly offered independent study offering during the first three months of enrollment. You must pay the difference in fees, if any. The amount transferred to the new fee will be the same amount that you would be entitled to as a refund during the first month of enrollment. No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original enrollment remains effective for all transfers.

TIME LIMITS AND EXTENSIONS

Independent Study Courses--Maximum Time: You are allowed one year from the date of enrollment to complete a course. If the work has not been completed in that length of time, an extension of three months can be requested. When approved, the fee for an extension of time is \$5.00. In certain cases, a second

extension may be granted. If a student fails to apply for an extension before his enrollment expires and he is withdrawn, a reinstatement fee of \$10.00 in addition to the extension fee must be paid. Reinstatements can be authorized only during the three month period following the expiration of the initial enrollment.

Minimum Time: You may proceed through your course at a rate that is mutually satisfactory to you and to your instructor. Ideally, after the first lesson is submitted, another is not sent in until the preceding one has been evaluated by the instructor and returned. Some students, however, will wish to work at a faster rate. Since the rate must be largely determined by your ability to do the required work, you should inform your instructor of your desire to work at a faster rate in an early lesson. As soon as the instructor has had an opportunity to form an opinion about your ability, he will either permit or deny your request. In making a request, you should keep in mind that correspondence courses are designed to allow a dialogue between students and instructors. For students who do not want such a dialogue or for students who have a prior knowledge of a subject, opportunities are available to earn credit by examination.

Independent Study Projects - You are allowed one year from the date of enrollment to complete an Independent Study Project. If the work has not been completed in that length of time, an extension of three months can be requested. When approved, the fee for an extension of time is \$5.00. In certain cases, a second extension may be granted. If a student fails to apply for an extension before his enrollment expires and he is withdrawn, a reinstatement fee of \$10.00 in addition to the extension fee must be paid. Reinstatements can be authorized only during the three month period following the expiration of the initial enrollment.

Course Credit by Examination - You can take the examination whenever you are prepared. The examination usually lasts three hours. You must take the examination within six months of your enrollment date.

INDEPENDENT STUDY PROJECT PROPOSALS

You must submit a study proposal with your application for enrollment in an independent study project. Forms are available from the Independent Study Office.

REPEATING COURSE CREDIT BY EXAMINATION

With approval of the instructor (and the academic dean, if you are an Ohio University student) you are permitted to repeat an examination. However, you must wait six weeks before taking the second examination. In order to be eligible to repeat, you will have to register again and pay the required fee.

SPECIAL COURSE CREDIT BY EXAMINATION

Special arrangements can sometimes be made for credit by examinations in undergraduate courses not regularly available in the Course Credit by Examination Program. You must obtain the permission of the department chairman in which the course is offered and find a qualified faculty member of that department to write and evaluate the examination. The permission slip you must obtain from your college office to enroll in a regular CCE course has a space for the signature of the department chairman. The name of the faculty member evaluating the examination should also be entered on the permission slip. It is your responsibility to determine from the faculty member how to prepare for the examination.

VETERANS

Independent Study is approved for veterans, servicemen currently serving on active duty for more than 180 days, and for certain wives, widows, and children. The educational assistance allowance is the same as for courses taken in residence.

HONOR AND INTEGRITY

Students enrolled in Independent Study are expected to maintain high standards of honor and integrity. All work submitted is to be accomplished through their own efforts. Academic penalties will be invoked in cases involving dishonesty or plagiarism.

LISTING OF COURSES

The following is a list of the courses available on a regular basis through the Independent Study Office. Some of the courses are offered both as Independent Study Courses and by Course Credit by Examination. Some are available only in one of the programs. The following code is used to identify the method(s) by which a particular course is offered:

Independent Study Course.....I
Course Credit by Examination.....C
Both methods.....I,C

The code will appear beside each course in the Listing of Courses.

If you do not find the course you need listed here you may wish to investigate the possibility of arranging an independent study projects or special course credit by examination through the Independent Study Office.

ACCOUNTING

101	Managerial Accounting	(I,C)	4
102	Managerial Accounting	(I,C)	4
303	Accounting Principles and Procedures	(I)	4
310	Cost Accounting	(I) (not available)	4
451	Auditing Principles	(I)	4

ARCHAEOLOGY

201	Introduction to Archaeology- Egypt (C)	5
203	Introduction to Archaeology- Rome (C)	5
352	Archaeology of Greece (C)	5

ART HISTORY

311	History of Painting and Sculpture (C)	3
312	History of Painting and Sculpture (C)	3
313	History of Painting and Sculpture (C)	3

Examinations in other art history courses are available. Information concerning previous work in art history must be submitted.

AVIATION

110	Primary Ground Instruction (I,C)	4
310	Commercial Ground Instruction (I,C)	4
315	Flight Instructor Ground Instruction (C)	4
415	Instrument Ground Instruction (C)	3
418	Instrument Instructor Ground Instruction (C)	3
421	Airline Transport Ground Instruction (C)	4

Examinations in flight courses are available and given only in Athens. Interested persons should submit a statement of their aeronautical knowledge and skills to the Aviation Department.

BLACK STUDIES

107	Introduction to Afro-American History (I,C)	5
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111	Introduction to Afro-American Literature (I,C)	5
200	History of Colonialism (C)	5
201	History of the Black Worker (C)	5
211	Third World Literature (I,C)	5
264	Comparative Study of Injustice (C)	5
358	Literature of South Africa (C)	5

Note: The 107, the 111 & 211 independent study courses are being developed. Inquire about their availability.

BOTANY

101	Principles of Biology (I,C)	5
102	Plant Biology (I)	5
133	Nature Study (I)	5

A deposit is required with the 101 and 102 independent study courses for slides.

BUSINESS ADMINISTRATION

310	Production Management (C)	4
493	Reading(s) (I)	1-15

Note: 493 requires a study proposal.

BUSINESS LAW

255	Law and Society (I,C)	4
356	Law of the Management Process (I,C)	4
357	Law of Commercial Transactions (C)	4
442	Law of Property (Real Estate Transactions) (I)	4

CHEMISTRY

121	Introduction to Chemistry (I,C)	5
122	Chemistry of Solutions (I,C)	4
123	Environmental Chemistry (C)	4
301	Organic Chemistry (I)	3
302	Organic Chemistry (I)	3

CLASSICAL LANGUAGES:
GREEK AND LATIN LANGUAGES

111	Beginning Greek (I)	4
112	Beginning Greek (I)	4
113	Beginning Greek (I)	4
111	Beginning Latin (I)	4
112	Beginning Latin (I)	4
113	Beginning Latin (I)	4
211	Intermediate Latin (I)	4
212	Intermediate Latin (I)	4
213	Intermediate Latin (I)	4

ECONOMICS

101	Principles (I,C)	4
102	Principles (I,C)	4
201	Introduction to Economic Analysis (C)	4
202	Principles (C)	4
303	Microeconomics (I,C)	4
304	Microeconomics (I,C)	4
320	Labor Economics (I) (not available)	4
334	Public Utilities (I)	4
340	International Economics (I)	4
430	Public Finance (I)	4
493	Readings (I)	1-15

Note: 493 requires a study proposal.

ECONOMIC EDUCATION

497	Independent Research (I)	3-5
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Note: 497 requires a study proposal.

EDUCATION, ELEMENTARY

200	Studies of Children (I)	4
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321 Children's Literature (I)

4

EDUCATION, SECONDARY

250 Analysis of Teaching (I) (being revised) 4

ENGINEERING

____ Review of Engineering Fundamentals (I) N.C.

Note: Fee for "Review of Engineering Fundamentals" is the same as a 3 qrt. hr. course.

ENGINEERING, CHEMICAL

200 Introduction to Chemical
Engineering (I,C) 4

302 Chemical Engineering Thermo-
dynamics and Kinetics (C) 4

331 Principles of Engineering
Materials (I,C) 4

Note: Examinations in other courses are available on arrangement with the department. Information on previous education in chemical engineering must be submitted.

ENGINEERING, CIVIL

220 Statics (I) 4

321 Dynamics (I) 4

Note: Examinations in non-laboratory courses are available on arrangement with the department. Information concerning previous education in engineering must be submitted.

ENGINEERING, ELECTRICAL, MECHANICAL, AND INDUSTRIAL
AND SYSTEMS

Examination in non-laboratory courses are available on arrangement with the department. Information concerning previous education in engineering must be submitted.

ENGINEERING GRAPHICS

101	Engineering Drawing (I,C)	3
103	The Slide Rule (I)	1

ENGLISH

181	Contemporary Writing Skills (English Composition) (I)	5
201	Interpretation of Fiction (I)	5
202	Interpretation of Poetry (I)	5
203	Interpretation of Drama (I)	5
206	Introduction to Comparative Literature III: The Modern Tradition (I)	5
301	Shakespeare, The Histories (I,C)	5
302	Shakespeare, The Comedies (I,C)	5
303	Shakespeare, The Tragedies (I,C)	5
304	English Bible (I)	5
308	Advanced Composition (I)	5
309	Creative Writing (I) (being revised)	5
314	Romantic and Victorian Literature (C)	5
315	American Literature (C)	3
321	American Literature to the Civil War (I,C)	5
322	American Literature Since the Civil War (I)	5
331	20th Century British and American Literature (I)	5
457	Readings in English Education (I)	5

HUMANITIES

107	Humanities--Great Books (I,C)	3
108	Humanities--Great Books (I,C)	3
109	Humanities--Great Books (I,C)	3
307	Humanities--Great Books (C)	3
308	Humanities--Great Books (C)	3
309	Humanities--Great Books (C)	3

FILM

480	Individual Problems (I)	1-5
481	Individual Readings (I)	1-5

Note: 480 and 481 require a study proposal.

FINANCE

325	Managerial Finance (C)	4
455	International Finance (C)	4
497	Independent Research (I)	1-15

Note: 497 requires a study proposal.

GEOGRAPHY

101	Elements of Physical Geography (I,C)	5
121	Elements of Cultural Geography (I,C)	4
130	Economic Geography (I,C)	4

Note: 130 independent study course will be available during 1975.

GEOLOGY

101	Earth Materials and Structure (C)	4
102	Surface Processes and Environmental Geology (C)	4
103	Elements of Geology, Historical (C)	4

Note: The laboratory portion of the 101 and 102 examination must be taken in Athens.

GOVERNMENT

101	American National Government (I,C)	4
102	American National Government (I,C)	4
304	Politics in the American States (I)	5
320	Urban Politics (I)	5
331	Comparative Government (C)	4
333	Comparative Government (I)	4
350	International Relations (I)	5

HEALTH, PHYSICAL EDUCATION AND RECREATION

202C	Personal and Community Health (I,C)	4
227C	First Aid (I,C)	3

252C	Kinesiology (I)	4
369C	Teaching of Health (I)	5
370C	Community Health Programs (I)	4
381	Administration of Intramural Sports (I)	4
404C	History and Principles of Physical Education (I)	4
406	Organization and Administration of Physical Education (I)	5
409C	Tests and Measurements (I)	4
449C	Community Recreation (I)	4

HEARING AND SPEECH SCIENCE

108	Introduction to Speech Disorders (C)	3
310	Language Development (C)	5
313	Respiratory and Phonatory Mechanisms (C)	3-4
314	Articulatory and Auditory Mechanisms (C)	3-4
350	Speech Science (C)	3-4
415	Stuttering (C)	5
424	Neuropathologies of Speech and Language (C)	3-4

Note: 415 and 424 require special permission of the department chairman.

HISTORY

101	Western Civilization in Modern Times, 1450-1648 (I,C)	4
102	Western Civilization in Modern Times, 1648-1848 (I,C)	4
103	Western Civilization in Modern Times, 1848-Present (I,C)	4
111	The Origins of Western Civilization (C)	4
211	History of the United States, 1607-1828 (I,C)	4
212	History of the United States, 1828-1900 (I,C)	4

213	History of the United States, 1900-Present (I,C)	4
317A	Ohio History to 1851 (I)	4
317B	Ohio History Since 1851 (I)	4
329A	Ancient History-NearEastern Civilizations (C)	4
329B	Ancient History-Hellenic Civilization (C)	4
329C	Ancient History-Roman Civilization (C)	4

Note: 101-102-103 or 211-212-213 may be taken in any sequence. 211-213 require a tape deposit.

HOME ECONOMICS

128	Introduction to Nutrition (I)	3
180	Furnishing Today's Home (I)	3
315	Elementary Textiles (I)	4
390	Family Consumer Economics (I,C)	3

INDUSTRIAL TECHNOLOGY

115	Metal Fabrication (C)	4
216	Metal Machining (C)	4
220	Small Engines (C)	3
250	Wood Industry (C)	5
320	Hydraulic Controls (C)	3
332	Electronics (C)	5

Note: All listed Industrial courses require a performance evaluation in Athens in addition to a written examination.

INTERPERSONAL COMMUNICATION

210	Parliamentary Procedure (I)	2
335	Bases of Speech Communication (C)	3
425	Direction of Forensic Programs (I)	3
450	Introduction to Rhetorical Theory (C)	3

JOURNALISM

250A	Advertising Principles (I,C)	5
311	History of American Journalism (C)	5
441	Magazine Feature Writing (I)	4
442	Advanced Magazine Feature Writing (I)	3
490	Independent Study (I)	1-4

Note: 490 requires submission of a study proposal.

LIBRARY MEDIA TECHNOLOGY

101	Introduction to Libraries and Library Technologies (I)	3
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LIBRARY SCIENCE

303	Library Science, The School Library Media Center (I)	5
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MANAGEMENT

493	Readings (I)	1-15
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Note: 493 requires submission of a study proposal.

MARKETING

301	Marketing Principles (I,C)	4
497	Readings (I)	1-15

Note: 497 requires submission of a study proposal.

MATHEMATICS

011	Elementary Algebra (I)	5
113	Algebra (I,C)	5
115	Introduction to Mathematics (I)	5
116	Analytic Trigonometry (I,C)	5
120	Elementary Topics in Mathematics (I,C)	5
121	Foundations of Elementary Mathematics (I)	5

163A	Introduction to Calculus	(I,C)	4
163B	Introduction to Calculus	(C)	4
207	Introduction to Number Theory	(C)	5
211	Elementary Linear Algebra	(C)	5
214	Elementary Abstract Algebra	(C)	5
230	Foundations of Geometry	(I)	5
263A	Analytic Geometry and Calculus	(I,C)	5
263B	Analytic Geometry and Calculus	(I,C)	5
263C	Analytic Geometry and Calculus	(C)	5
320	Teaching of Mathematics in Secondary Schools	(I)	5
340	Differential Equations	(C)	5
410	Matrix Theory	(C)	5

MODERN LANGUAGES

For Ohio University students, written permission to take a CCE examination must be obtained from the Chairman of the Department of Modern Languages. This examination is given in only very exceptional circumstances: for example, it can usually be given to graduating seniors who cannot finish their language requirement before graduation. CCE credit cannot be given to students who have taken equivalent work in high school. CCE credit cannot normally be given if a student is able to take the course on campus. A number of examinations require the use of a tape recorder and are best administered by a qualified language teacher.

FRENCH

111	Elementary French	(C)	4
112	Elementary French	(C)	4
113	Elementary French	(C)	4
211	Intermediate French	(C)	4
212	Intermediate French	(C)	4
213	Intermediate French	(C)	4

GERMAN

111	Elementary German	(C)	4
112	Elementary German	(C)	4
113	Elementary German	(C)	4

211	Intermediate German	(C)	4
212	Intermediate German	(C)	4
213	Intermediate German	(C)	4

SPANISH

111	Elementary Spanish	(C)	4
112	Elementary Spanish	(C)	4
113	Elementary Spanish	(C)	4
211	Intermediate Spanish	(C)	4
212	Intermediate Spanish	(C)	4
213	Intermediate Spanish	(C)	4

APPLIED MUSIC

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

455	Conducting	(C)	3
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MUSIC EDUCATION

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

160	Music Fundamentals	(C)	3
261	String Methods and Materials	(C)	2, max. 6
263	Wind and Percussion Methods and Materials	(C)	2, max. 12

Note: Please specify the instrument of your desire for 261 and 263.

MUSIC HISTORY AND LITERATURE

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

321	History and Literature of Music (I,C)	3
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322	History and Literature of Music	(C)	3
323	History and Literature of Music	(C)	3

MUSIC THEORY AND COMPOSITION

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

101	Music Theory	(C)	3
102	Music Theory	(C)	3
103	Music Theory	(C)	3
201	Harmony	(C)	3
202	Harmony	(C)	3
203	Harmony	(C)	3
204	Dictation and Sight Singing	(C)	3
205	Dictation and Sight Singing	(C)	3
206	Analysis and Form	(C)	3
304	Instrumentation	(C)	3
401	Keyboard Harmony	(C)	3

PHILOSOPHY

101	Fundamentals of Philosophy	(I,C)	5
120	Principles of Reasoning	(I,C)	4
130	Introduction to Ethics	(I,C)	4
301	Introduction	(I,C)	3

Note: 101 will be available in February, 1975.

PHYSICAL SCIENCE

101	Physical World	(I,C)	3 or 4
102	Physical World	(I,C)	3 or 4
103	Physical World	(I,C)	3 or 4

Note: Students registering for 4 hours credit must complete the laboratory on the Athens campus.

PHYSICS

201	Introduction to Physics	(I,C)	3 or 4
202	Introduction to Physics	(I,C)	3 or 4
203	Introduction to Physics	(I,C)	3 or 4

251	General Physics (C)	4 or 5
252	General Physics (C)	4 or 5
253	General Physics (C)	4 or 5

Note: Students registering for the additional hour of credit must complete the laboratory on the Athens campus.

PSYCHOLOGY

101	General Psychology (I,C)	5
121	Elementary Statistics for the Behavioral Sciences (I)	5
131	Psychology of Adjustment (I)	4
173	Child and Adolescent Psychology (I,C)	5
275	Educational Psychology (I,C)	5
310	Motivation (C)	5
332	Abnormal Psychology (I,C)	5
336	Social Psychology (C)	5

Note: 121 will be available February, 1975.

QUANTITATIVE METHODS

200	Introduction to Business Data Processing (C)	4
201	Introduction to Probabilities and Statistics (I,C)	4

RADIO-TELEVISION

106	Introduction to Radio-Television (I)	4
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REAL ESTATE TECHNOLOGY

101	Principles and Practices I (C)	4
102	Principles and Practices II (C)	4
103	Real Estate Law (C)	4
201	Real Estate Appraising I (C)	4
204	Real Estate Financing (C)	4
221	Real Estate Seminar (C)	4

SECRETARIAL TECHNOLOGY, GENERAL

111	Beginning Shorthand (C)	3
112	Intermediate Shorthand (C)	3
121	Beginning Typewriting (C)	3
122	Intermediate Typewriting (C)	3

SOCIOLOGY

100	Social Problems (C)	4
101	Introduction to Sociology (C)	5
223	American Society (C)	4
302	Principles of Sociology (I,C)	5
327	Sociology of Education (I)	4
351	Elementary Research Techniques (I)	4

THEATER

499	Independent Readings (I)	1-12
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Note: 499 requires submission of a study proposal.

UNIVERSITY COLLEGE

—	Effective Study Skills (I)	N.C.
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Note: "Effective Study Skills" carries the same fee as a 1 quarter hour course. A \$1.00 tape deposit is required.

ZOOLOGY

101	Principles of Biology (I,C)	5
103	Human Biology (I,C)	4
325	General Genetics (C)	5
345	Human Physiology (I,C)	4
382	Topics in Zoology (I)	1-3
482	Topics in Zoology (I)	1-6

Note: The 103 independent study course requires a tape deposit of \$5.00. 382 and 482 require submission of a study proposal.

Is this the first time you are enrolling for the course(s)? yes _____ no _____

What Ohio University college are you in? _____ Class Rank _____

Are you currently enrolled in the Independent Study Program? yes _____ no _____
If yes, what course? _____ what program? _____

Have you previously enrolled in Independent Study at Ohio University? yes _____ no _____
If yes, what course? _____ what program? _____

Please give any deadline, such as graduation, you expect to meet? _____

Do you wish to enroll under the pass-fail option? yes _____ no _____ (You must have permission
of your college office for this option.)

Do you wish airmail service? yes _____ no _____ (consult the Independent Study Office for
the fee.)

Date of Birth _____ Marital Status _____ Citizenship _____

In signing this application I agree to abide by the policies governing Independent Study
found in the current Bulletin.

Signature _____
Date _____

OHIO UNIVERSITY-INDEPENDENT STUDY
Application Form for Ohio University Students

Name _____	Last	First	Middle	Soc.	Sec.	No. _____
Permanent Address	Street & No.	City	State	Zip	Phone	Area Code Number
Present Address	Street & No.	City	State	Zip	Phone	Area Code Number
	Dept.	Course No.	Title	Hrs. Credit	Program(ISC, CCE, or ISP)	
Fee Enclosed _____	Checks should be made payable to Ohio University.					
Ohio University students must have the permission of their college office to enroll.						
IMPORTANT: YOU MUST ALSO FILL-OUT THE OTHER SIDE.						

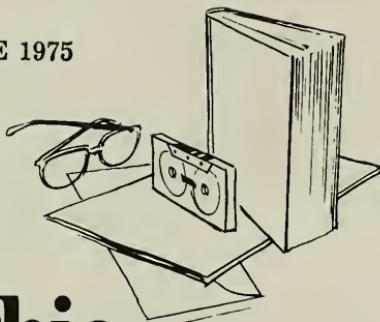
JUNE
1975



Ohio University Bulletin 1975-76

INDEPENDENT STUDY • EXTENSION DIVISION
INDEPENDENT STUDY COURSES
INDEPENDENT STUDY PROJECTS
COURSE CREDIT BY EXAMINATION

JUNE 1975



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INDEPENDENT STUDY • EXTENSION DIVISION

302 Tupper Hall, Ohio University, Athens, Ohio 45701



PROFILE OF OHIO UNIVERSITY

Chartered in 1804, Ohio University is the first institution of higher education in the Northwest Territory. Cutler Hall, the main administration building, was built in 1816 and is a National Historic Landmark. The University has grown from this single building to more than 120 principal structures, including the seven-story Alden Library which has a capacity of 1.4 million volumes and seating for 3,200.

The main campus of the University is located in Athens, Ohio, about 70 miles southeast of Columbus, at the junction of U.S. routes 33 and 50. The Athens campus has an enrollment of about 12,500 students in its eight colleges and 13 schools. Close to 4,000 are enrolled at the regional campuses in Belmont County, Chillicothe, Lancaster and Zanesville and the academic center at Ironton.

Independent Study operates under the jurisdiction of the Extension Division and has a registration of approximately 4,000 students. Within the total framework of the Extension Division, which includes Workshops, Conferences and Institutes; Continuing Education; and Independent

Study, almost 18,200 people are served.

Currently the University offers undergraduate study in approximately 100 areas, with a full-time faculty of nearly 650. The Graduate College offers 17 doctoral programs and master's-degree work in 41 areas.

The University academic calendar consists of three quarters of from ten to 12 weeks and a summer session of two five-week terms. Many students find it advantageous to register for all sessions, which provides the opportunity for year-round study and research.

Ohio University has been a member of the National University Extension Association since 1926. The University is accredited by the North Central Association of Colleges and Secondary Schools and by the professional accrediting associations identified with its major academic divisions.

Ohio University is committed to offering equal educational and employment opportunities and to complying with federal and state law prohibiting discrimination based upon race, creed, color, national origin, age, sex or handicap.

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UNIVERSITY ADMINISTRATION

SENIOR ADMINISTRATORS

Charles J. Ping, Ph.D., *President of the University*

Robert E. Mahn, MA, *Assistant to the President and Secretary
of the University*

Taylor Culbert, Ph.D., *Executive Vice President and Dean of Faculties*

James C. Bryant, Ph.D., *Acting Vice President for Regional Higher Education*

Wm. Charles Culp, MED., *Vice President for Administrative Services*

Martin L. Hecht, BSC, *Vice President for University Relations*

E. Dale Mattmiller, M.D., *Acting Vice President for Academic Services*

John F. Milar, MBA, *Vice President and Treasurer of the University*

COLLEGES AND ACADEMIC PROGRAMS

University College	Don M. Flournoy, Ph.D., <i>Dean</i>
College of Arts and Sciences	John D. Jewett, Ph.D., <i>Dean</i>
College of Business Administration	John M. Peterson, Ph.D., <i>Dean</i>
College of Communication	John R. Wilhelm, B.A., <i>Dean</i>
College of Education	Samuel Goldman, Ph.D., <i>Dean</i>
College of Engineering and Technology	Richard S. Mayer, Ph.D., <i>Dean</i>
College of Fine Arts	Henry H. Lin, MFA., <i>Dean</i>
Graduate College	Norman S. Cohn, Ph.D., <i>Dean</i>
Afro-American Affairs	James F. Barnes, Ph.D., <i>Dean</i>
Extension Division	Curtis M. Johnson, M.A., <i>Director</i>
Honors Tutorial College	Ellery Golos, A.M., <i>Director</i>
International Studies	Edward Baum, Ph.D., <i>Director</i>

INDEPENDENT STUDY

William J. Driscoll, Ed.D.,	Director
Robert W. Batchellor, Ph.D.,	Assistant Director
Shirley A. Tinkham,	Administrative Assistant
Gail McGaffney, B.S.Ed.,	Coordinator, Student Services
John Strain, M.A.,	Coordinator, Instructional Materials

INDEPENDENT STUDY

The Ohio University Independent Study Program is currently celebrating its fifty-second year of service to the people of Ohio. Ohio University is the only state-assisted institution in Ohio which offers an external independent study program.

The purpose of the Independent Study Program is to provide a number of flexible ways by which persons capable of pursuing college level work can earn college credit without some of the limitations imposed by the traditional university structure. Independent Study allows an individual to learn at the time, place, and rate suited to his or her own particular needs. Independent Study is open to anyone who can profitably pursue the program.

INDEPENDENT STUDY OPTIONS

The student enrolling in independent study may choose from a number of study options which fall along a continuum from a highly structured and directed format to a format which involves minimum instruction and maximum independent effort on the part of the student.

The Ohio University Independent Study Program presently offers study options which involve three points along this continuum:

1. Independent Study Courses
2. Independent Study Projects
3. Course Credit by Examination

Successful completion of an offering in any of these programs carries with it graduated resident credit at Ohio University. This credit has generally been readily accepted by other institutions.

The Independent Study Program enrolled approximately 4,000 people during 1974-75. The program is used by people of all ages for a variety of reasons including the following:

- A. Before college by both high school students and adults to
 1. Begin college level work early
 2. Qualify for advanced standing
 3. Try college level work

- B. By anyone pursuing a college degree to
 1. Accelerate a degree program
 2. Solve campus scheduling problems
 3. Complete degree requirements
 4. Continue studies while away from college
 5. Obtain courses not otherwise offered
- C. By adults to
 1. Satisfy certification requirements
 2. Qualify for job advancement
 3. Learn while earning
 4. Gain personal satisfaction

It is possible to obtain a degree through Independent Study although the present level of course offerings generally limits this possibility to associate degrees and the Bachelor of General Studies (see the section of this *Bulletin* on Degree Opportunities). Even when it is not possible to satisfy all degree requirements through Independent Study, a substantial portion of these requirements can be met by the Independent Study options.

INDEPENDENT STUDY COURSES

Independent study courses provide a highly structured method of independent study involving a tutorial relationship with a faculty member who guides your learning and monitors your progress through the course. You receive a detailed study guide prepared by the faculty member responsible for the course which provides an overview and directs you through the course using textbooks, cassette tapes, and other educational materials and devices.

The course is broken down into discrete learning units which usually include a lesson, paper, or other project which is submitted to the faculty member for evaluation and comment. The study guide often includes self-check tests or other devices which allow the student to monitor his own progress. Generally, two supervised examinations are required, a mid-course and a final examination.

INDEPENDENT STUDY PROJECTS

The Independent Study office will arrange an independent study project for you in any undergraduate course at Ohio University which is not currently available as an independent study course. These arrangements are made on an individual basis and are contingent upon the approval of the department in which the course is offered and the availability of a qualified faculty member willing to direct the project.

You and the faculty member agree upon the conditions which must be fulfilled for credit to be awarded. This can include a variety of readings, examinations, papers and projects. The independent study project is designed to provide you with the knowledge and experience that is comparable to that which you would obtain by taking the course on campus. It provides a way in which the course requirements can be tailored to your individual needs and circumstances. A special form to use in arranging the project can be supplied at your request.

COURSE CREDIT BY EXAMINATION

Course Credit by Examination represents the least structured method of obtaining college credit through the Independent Study Program. You enroll in the course in which you wish to obtain credit by examination and receive a brief syllabus which describes the nature of the course, the textbooks and other material to study and the type of examination you can expect. The supervised examination must be taken within six months. You prepare for the examination without intermediate assistance from the faculty member. Upon successful completion of the examination, you receive a grade and resident Ohio University credit. Failures are not reported and no penalty is incurred. The program provides both the opportunity for you to demonstrate proficiency in a subject and a flexible study option to meet your individual needs and circumstances.

GENERAL INFORMATION

POLICIES AND PROCEDURES

Organization of the Bulletin

This bulletin is organized into the following five sections:

Independent Study

This section explains the nature of the independent study opportunities available through the Ohio University Independent Study Office.

General Information

This section includes the policies and procedures which apply to all the independent study options, the degree and special opportunities available, and how to obtain further information.

Independent Study Courses

This section contains specific policies and procedures that apply to independent study courses along with a listing of the independent study courses available.

Independent Study Projects

This section describes specific policies and procedures that apply to independent study projects.

Course Credit by Examination

This section describes specific policies and procedures that apply to course credit by examination and gives a listing of the courses that are available on a regular basis under this option.

How to Enroll

Read all the information contained in this *Bulletin* and then select the course or courses for which you wish to enroll. Complete the enrollment form contained in the centerfold of this *Bulletin* and mail it to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

A check or money order payable to Ohio University should be enclosed.

You may enroll for a course at any time. Independent Study does not follow the traditional academic calendar, so you can begin your course as soon as you enroll. If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Independent Study. If you are currently enrolled at another institution of higher education or if you plan to transfer the credit earned you should obtain written permission from the college that is to accept the credit. Others do not need any special permission.

Fees (per quarter hour)

	Ohio Residents	Non-residents
Independent Study Courses	\$17.50	\$20.00
Independent Study Projects	\$17.50	\$20.00
Course Credit by Examination	\$ 7.50	\$ 7.50

Note: Scholarships to cover the cost of the non-resident fee differential of \$2.50 per quarter hour are available. To apply, write to the Director, Independent Study, Ohio University, outlining your need.

Credit

The credit earned in this program is expressed in quarter hours. All credit is considered resident credit at Ohio University and there is no limit to the amount of independent study credit which can be applied to an Ohio University degree. Independent study credit can generally be transferred to other institutions; the accepting institution, however, establishes the policy in this matter. You are therefore urged to make arrangements in advance so that you will know that the credit earned will transfer.

Admission

Independent Study is open to all who can profit from it and formal admission to the University is not required for enrollment. Admission to Independent Study, however, does not constitute admission to Ohio University. Although most persons who enroll are high school graduates, it is not necessary for you to have a high school diploma if you are an adult. High school students recommended by their principal or guidance counselor are eligible to enroll in lower division courses.

Enrollments are accepted on a noncredit basis for those who are not interested in college credit but who are studying for personal satisfaction. The noncredit fee is the same as the credit fee but the supervised examinations can be omitted.

Advising

If you are earning a degree at another institution or plan to do so, you should consult with a representative of that institution before enrolling. If you are an Ohio University student, you must secure the written permission of your academic dean. All prospective students may consult with the Independent Study Student Services staff for assistance in selecting a course. More detailed information such as textbooks and course content is available and will be sent on request.

Pass-Fail Option

Students whose institutions will accept such credit may enroll for the pass-fail option if they so indicate at the time of their enrollment. Ohio University students must have the written permission of their academic dean to participate in this option.

Completion of Work

You must enroll in sufficient time to complete your work for a specific deadline such as graduation or certification. Ohio University degree candidates should complete all requirements, including the final examination, two weeks before the end of the quarter in which they expect to receive the degree. Students completing degrees at other institutions should determine in advance what their deadline is and inform the Independent Study office. It should be kept in mind that time must be allowed for preparing and mailing official transcripts.

Textbooks

Most courses require the purchase of one or more textbooks. Information about the textbooks will be sent to you by first class mail immediately following enrollment. It then becomes your responsibility to secure them. All books are available through bookstores in Athens, where they can be most conveniently ordered. You can have the books shipped and be billed for their cost if you request this service.

Transcript of Record

A form is provided with the material you will receive upon enrollment which you may use to request directly from the Office of Student Records, Chubb Hall, Ohio University, Athens, Ohio 45701, an official transcript of a course completed. Regulations prevent the Independent Study office from requesting a transcript. The fee of \$1.00 for each transcript should be sent with the request; the transcript will be sent to the person or institution indicated on the form.

For students who complete independent study courses or independent study projects the transcript will indicate that they were completed in the "Independent Study Program"; for students who complete course credit by examination the transcript will indicate they were completed by "Course Credit by Exam." All types of independent study credit are considered resident credit by Ohio University and there is no limit to the amount that can be applied to an Ohio University degree.

Examinations

Most of the independent study options require one or two supervised examin-

ations. If you reside near an Ohio University campus you may take your examination at the nearest campus (see the list on page twelve). Others can arrange to have their examinations proctored at another college or university or, if it is more convenient, at a local high school. Ohio University reserves the right to reject a proposed examination supervisor. Detailed information about examination procedures will be included with your enrollment material.

Teacher Certification

Independent Study credit can usually be applied toward teacher certification requirements. Individual cases should be checked with the institution responsible for recommending for certification or with the State Department of Education. In Ohio, students who are completing an undergraduate degree or who hold one from an Ohio institution should check with their university. Those holding an undergraduate degree from an out-of-state institution should check with the Division of Teacher Education and Certification, Ohio Departments Building, Columbus, Ohio 43215.

Honor and Integrity

Students enrolled in Independent Study are expected to maintain high standards of honor and integrity. All work submitted is to be accomplished through their own efforts. Academic penalties will be invoked in cases involving dishonesty or plagiarism.

Course Numbering System

The catalog number indicates the student classification for which the course is primarily intended.

001-099 Noncredit courses

100-299 Undergraduate General Program

300-499 Undergraduate Advanced or Specialized Program

Prerequisites are indicated by course numbers only (102, 103, and so on) if the course appears elsewhere in this *Bulletin*; course number and title are otherwise used. Prerequisites can sometimes be waived for students who are not in Ohio University degree programs.

DEGREE OPPORTUNITIES

If you are interested in obtaining a degree primarily through the various independent study options, the Independent Study office will aid you in planning a program leading to an Ohio University associate or baccalaureate degree. The nature of the degrees is described in the following materials. While it is possible

to structure a degree solely through independent study offerings in some areas, it may be necessary to take certain courses either on a campus or from another institution offering an Independent Study Program because of the limited number of courses currently available in the Ohio University Independent Study Program. Regardless of your area of concentration, however, a major portion of your program can be completed, if you wish, off-campus, through the independent study offerings.

Prior to applying for admission to Ohio University for acceptance to a degree program, you may wish to consult with the Independent Study office and request an informal evaluation of any prior college level work. This informal evaluation and assistance in program planning will be provided by the Independent Study office for a fee of \$25.00. If you are interested in making use of this service you should complete the application for External Student Status which will be sent on request and submit transcripts of all previous work along with your check or money order to the Independent Study office. In the event it appears that the Independent Study Program cannot accommodate your goals this fee will be refunded. You are not required to apply for formal admission to the University in order to participate in the Independent Study Program. You may wish to delay such application until you have at least 45 quarter hours of Ohio University or transferable credit earned.

Bachelor of General Studies

The Bachelor of General Studies Program provides an opportunity for students to design their own education. The student with high motivation, an exceptional background or an unusual combination of talents and interests may find this degree useful in attaining his goals. It is intended for students who know who they are and what they want but wish to take a nontraditional approach to their education. Students may propose to University College their plan for an individually designed program of study. Following consultation with counselors and approval of the proposed program of study by a University College committee, the courses planned for an area of concentration become the requirements for graduation. The General Studies Program creates no special privileges nor does it allow you to ignore course prerequisites. It does allow you to select from the existing curriculum those courses which lead you toward your particular educational and career objective, and it provides you the context and support for pursuing an entirely unique degree.

Graduation requirements for the Bachelor of General Studies degree are as follows:

1. To be admitted to the Bachelor of General Studies Program you must have earned no less than 45 quarter hours of credit and have an accumulative grade point average of 2.0.
2. Complete a concentration area of at least 45 quarter hours.
3. Earn no less than 45 quarter hours after admission to the General Studies Program and complete 90 of the 180 quarter hours of credit required for graduation in courses numbered 300 or above (*i.e.*, junior or senior level courses).
4. Earn 180 quarter hours of college level credit with a minimum grade point average of 2.0 (excluding any remedial or duplicate course work).
5. For students who complete fewer than 90 quarter hours at Ohio University, the final 45 hours must be Ohio University credit. For students who complete 90 or more quarter hours of Ohio University credit, the final 15 hours must be Ohio University credit.

Bachelor of Business Administration

Previously, it has been typical for external students concentrating on business to enroll in the BGS program. In many instances that is still the case, however, presently, all but three courses required for the Bachelor of Business Administration in the General Business area are available on a regular basis through the Independent Study office. These currently unlisted courses may sometimes be arranged as special projects. Such decisions are made by the College of Business Administration on an individual basis and it still may be necessary for some students to come to campus to take these courses. In addition, most of the requirements for a major in Accounting can be taken through Independent Study, but a student will typically need to spend one or two quarters on campus in order to complete this major. Other majors are offered but, at present, cannot be completed without some amount of on-campus study.

Bachelor of Arts/Bachelor of Science

Significant amounts of course work which can be applied toward the other baccalaureate degrees offered by Ohio University can be earned through Independent Study. The specific degree requirements and the availability of courses to meet these requirements using the independent study options will vary depending upon the area of major study.

Associate Degree Programs

Ohio University offers various types of Associate Degrees:

Associate in Arts: awarded for the satisfactory completion of a minimum of 90 quarter hours of credit with a minimum 2.0 accumulative grade point average. The 90 credits for the AA must include as general education at least 30 credits in Arts and Humanities theory courses (some credits in each area), 15 credits in Social and/or Behavioral Sciences, and 15 credits in Natural Sciences and/or Mathematics.

Associate in Individualized Studies: awarded for the satisfactory completion of a minimum of 90 quarter hours of credit with a minimum 2.0 accumulative grade point average in a self-designed course of study. The student must complete the AIS application outlining an intended course of study and indicate an area of concentration. No minimum or maximum number of credits is required within an area of concentration, with such a determination to be made by resource people in consultation with the student in the development of the program. (The Independent Study office assists the student in making the necessary contacts with the resource persons.)

Transfer Credit

The following policy governs the transfer of credit to Ohio University degree programs:

College Courses: Credit granted by regionally accredited institutions of higher education will generally be accepted for transfer if the grade earned is C or better. The applicability of the credit to an Ohio University degree is determined by the college within the University granting the degree.

United States Armed Forces Institute (USAFI): In those cases where USAFI programs carry a credit recommendation, credit will be granted for scores at or above the 45th percentile. The applicability of the credit to an Ohio University degree is determined by the college within the University granting the degree.

Military Service Schools: Credit may be granted for service school courses which are the equivalent of college level work and for which credit is recommended by the Commission on Educational Credit, and recorded in *A Guide to the Evaluation of Educational Experiences in the Armed Services*, 1974 edition. The applicability of the credit to an Ohio University degree is deter-

mined by the college within the University granting the degree.

Technical Institutes: In accordance with our general policy of granting transfer credit as described above from regionally accredited institutions, credit from an accredited technical institute in general education studies will transfer. Work in technical and basic studies will transfer only with the approval of the department in which the student expects to major.

SPECIAL OPPORTUNITIES

Financial Aid

Financial aid may be available to those persons with limited financial resources. At the present time, however, it is limited to those persons classified as full-time students which means that they are taking a minimum of 12 quarter hours of credit concurrently. For further information, write to the Director, Independent Study.

Veterans

Independent Study is approved for veterans, servicemen currently serving on active duty for more than 180 days, and for certain wives, widows, and children. Veterans should submit VA Form 22-1990, Veteran's Application for Program of Education or Training, or VA Form 22-1993a, Certificate of Eligibility; servicemen on active duty should submit VA Form 22-1990a; if benefits have previously been used at another institution you should submit VA Form 22-1995, Request for Change of Program or Place of Training; others should consult the Veterans' Administration.

Servicemen and Women

Ohio University is an approved Servicemen's Opportunity College (SOC) and the Director of Independent Study is the designated counselor who can provide assistance to help military personnel meet their educational goals. Servicemen's Opportunity College is a network of institutions across the country dedicated to responding to the special needs for adult continuing education of persons in the armed forces. Ohio University is also cooperating with DANTES (Defense Activity for Non-Traditional Educational Support), the agency which has replaced USAFI. Interested persons are encouraged to consult with their educational officer concerning opportunities that are coordinated by DANTES.

College Courses for High School Students

Capable high school juniors and seniors who are recommended by their guidance

counselor or principal will be permitted to enroll in courses for college credit. Lower division courses are suggested as most appropriate for these students.

The Incarcerated

Ohio University conducts a College Degree Program in selected correctional institutions in Ohio. Financial aid is often available to eligible persons. Those interested in this program are encouraged to consult the Director of Education of their institution for information about their eligibility to participate. A brochure explaining the program is available upon request from the Independent Study office. Incarcerated veterans can use their veteran's benefits to defray the cost of their enrollment in Independent Study. Additional information is available in the section entitled *Veterans*.

College Level Examination Program

Ohio University participates in the College Level Examination Program (CLEP) sponsored by the College Entrance Examination Board and the Independent Study office serves as an open test center for the program. Examinations are scheduled on Saturday of the third week of each month. University policy allows the awarding of up to 45 quarter hours of credit for the general examinations as well as appropriate credit for the subject examinations. This program is especially useful for the adult who has had no previous college experience but whose work or life experience may be the basis for college credit. It is also useful for the beginning college student who has had an enriched high school experience. For detailed information, write to CLEP, Box 592, Princeton, New Jersey 08590 or Director, Independent Study, Tupper Hall 302, Ohio University, Athens, Ohio 45701.

Independent Study by Television

The Independent Study office can make available to sufficiently large groups, with access to closed circuit television systems, a few television courses which lead to college credit. Interested groups should contact the Independent Study office for more details.

Technical Colleges

A series of courses for the technical colleges of Ohio is currently being developed by the Independent Study office under the terms of a grant from the Ohio Board of Regents. These courses will be open for

enrollment in September 1976. Interested persons are encouraged to write for more information.

Extension Division

Independent Study is only one of three sections comprising the Extension Division at Ohio University. *Continuing Education and Workshops, Conferences and Institutes* are the other two units. All three of these offices are devoted to providing educational opportunities beyond the regular channels of the University by utilizing the resources of the University in nontraditional ways.

Both the Continuing Education and the Workshops, Conferences and Institutes offices provide credit and noncredit programs in such diverse areas as undergraduate and graduate credit courses, technical and professional programs, community development, liberal adult education, avocational and recreational programs. Even though the thrust of the effort is toward meeting the needs of those individuals not enrolled in the university, some programming is done to meet the needs of regular students.

Continuing Education classes are long term in nature and are generally held in the evening, although some daytime programs are scheduled. Workshops, Conferences and Institutes are more concentrated and usually run full-time for two or more days during the academic year with some summer programs lasting several weeks.

The standard University tuition is charged for any credit course work; each noncredit program has a fee determined primarily by direct costs; whenever possible public service activities are conducted at no cost to participants. Admission to the University is necessary only for credit courses; otherwise, anyone may usually register for a noncredit course.

For further information on current and planned offerings or to discuss developing a class or workshop, contact:

Andy Chonko
Workshops, Conferences and Institutes
Ohio University
301 Tupper Hall
Athens, Ohio 45701
614/594-3765

Z. Brent Fry
Continuing Education
Ohio University
308 Tupper Hall
Athens, Ohio 45701
614/594-3361

FURTHER INFORMATION

For further information, please write to the Director, Independent Study, Tupper Hall, Ohio University, Athens, Ohio 45701 or call 614/594-4494. Those living near a regional campus can contact the Continuing Education office of that campus for further information or assistance.

Lester E. White
Ohio University-Belmont County
National Road West
St. Clairsville, Ohio 43950
614/695-1720

Paul P. Mechling
Ohio University-Lancaster
1570 Granville Pike
Lancaster, Ohio 43130
614/654-6711

Roger C. Wilcox
Ohio University-Zanesville
1425 Newark Road
Zanesville, Ohio 43701
614/453-0762

Stephen J. Phillips
Ohio University-Chillicothe
Bennett Hall, Box 629
Chillicothe, Ohio 45601
614/775-9500

INDEPENDENT STUDY COURSES

A description of the nature of independent study courses is provided on page five of this *Bulletin*. This section of the *Bulletin* gives information about those policies which apply to the independent study courses, together with a listing of the independent study courses available at the time this *Bulletin* was printed. You will also need to read carefully the "General Information" section for additional information on the policies and procedures which apply to independent study courses.

How to Enroll

Select the course or courses for which you wish to enroll from the list of independent study courses. Complete the enrollment form in the centerfold of this *Bulletin* and mail it to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

A check or money order payable to Ohio University for the course fee should be

included. The fee is \$17.50 per quarter hour for Ohio residents and \$20.00 per quarter hour for non-residents (see the section on Fees under "General Information"). If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Independent Study. If you are currently enrolled at another institution of higher education or if you plan to transfer the credit earned, you should obtain written permission from the college that is to accept the credit. Others do not need special permission.

Postage

The cost of mailing the course study guide and graded assignments is covered by the enrollment fee. You are responsible for the postage on assignments mailed to the Independent Study office. If you live at some distance from Athens you may wish to have your study guide and assignments sent by airmail. You may do so by paying an additional fee according to the schedule at the bottom of this page.

Airmail Postage Fee Schedule

	1 qtr. hr.	2 qtr. hrs.	3 qtr. hrs.	4 qtr. hrs.	5 qtr. hrs.
United States, Canada, Mexico, APO and FPO	2.25	3.00	4.00	4.75	5.75
South & Central America & West Indies	5.00	8.00	11.50	15.00	18.50
Europe & North Africa	6.00	10.00	14.00	18.00	22.00
Remainder of Africa, Asia, and the Pacific	6.50	10.50	14.50	18.50	22.50

Airmail fees are not refundable.

Lesson Processing

Shortly after you enroll you will receive a study guide containing all the required lessors in the course. These written lessons are submitted to the Independent Study Office, Tupper Hall, Ohio University, Athens, Ohio 45701, where a record of their receipt is made and then they are immediately forwarded to the instructor for evaluation, grading, and comments. They are returned to the Independent Study office by the instructor where the grade is recorded before they are mailed back to the student. The time required for grading is generally from one to two weeks. This time will depend somewhat on any delays in the mail and on the instructor's personal schedule for all instructors also carry teaching loads in residence. During vacation periods and between quarters some instructors leave campus, thus, some delay may occur at these times.

Grades

The lessons you submit will be graded by the instructor assigned to the course. The method of grading is explained in detail in each study guide. Final grades are generally determined by grades on supervised examinations and they are reported on an A to F scale. Plus and minus signs may be reported together with the letter grade, for example, B+. Examinations are not returned but a mid-course examination report and grade is sent. A final grade report will be sent to you at the same time the grade is reported to the Office of Student Records. See the "General Information" section for information on the pass-fail option.

Fee Refund Policy

A full refund is given only when you are refused enrollment. If you request withdrawal within one month from the date of your enrollment, the course fee will be refunded less \$10.00 and a charge for each lesson graded. If you request withdrawal between one and two months from the date of your enrollment, one half of the course fee will be returned, less a charge for each lesson graded. No refunds will be authorized after two months from the date of enrollment.

Transfers

You are permitted to change your registration once to another independent study offering during the first six months of enrollment. You must pay the difference in

fees, if any. The amount transferred to the new fee will be the original fee less \$10.00 and a charge for each lesson graded. No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original enrollment remains effective for all transfers.

Time Limits and Extensions

Maximum Time: You are allowed one year from the date of enrollment to complete a course. If the work has not been completed in that length of time, an extension of three months can be requested. When approved, the fee for an extension of time is \$5.00. In certain cases, a second extension may be granted. If a student fails to apply for an extension before his enrollment expires and he is withdrawn, a reinstatement fee of \$10.00 in addition to the extension fee must be paid. Reinstatements can be authorized only during the three month period following the expiration of the initial enrollment.

Minimum Time: You may proceed through your course at a rate that is mutually satisfactory to you and to your instructor. Ideally, after the first lesson is submitted, another is not sent in until the preceding one has been evaluated by the instructor and returned. Some students, however, will wish to work at a faster rate. Since the rate must be largely determined by your ability to do the required work, you should inform your instructor of your desire to work at a faster rate in an early lesson. As soon as the instructor has had an opportunity to form an opinion about your ability, he will either permit or deny your request. In making a request, you should keep in mind that independent study courses are designed to allow a dialogue between students and instructors. For students who do not want such a dialogue or for students who have prior knowledge of a subject, opportunities are available to earn credit by examination.

Special Courses

If the course you need is not available in the listing of Independent Study Courses it may be available under the Course Credit by Examination option, or it may be possible to arrange for it as an Independent Study Project. Please consult the appropriate section of this *Bulletin* for information about these options.

LIST OF COURSES

This list contains the Independent Study Courses available on a regular basis at the time this *Bulletin* was printed. Periodic supplements to this *Bulletin* will note any courses added or deleted. A list of courses available under the Course Credit by Examination option appears elsewhere in this *Bulletin*.

ACCOUNTING

101 Managerial Accounting (4)

Uses of accounting information for making managerial decisions.

102 Managerial Accounting (4)

Prereq: 101. Continuation of 101.

303 Accounting Principles and Procedures (4)

Prereq: 102. Fundamental accounting principles and practices emphasizing data accumulation using accounting techniques. Primarily intended for those specializing in accounting.

310 Cost Accounting (4)

Prereq: 102. Manufacturing cost determination under job-order and process systems. Establishment of standard costs, budgets and analysis of variances. Available September, 1975.

451 Auditing Principles (4)

Prereq: 24 hrs of accounting. Purposes and scope of audits and examinations; audit principles and procedures; audit reports and certificates.

AVIATION

110 Primary Ground Instruction (4)

40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction and performance data to meet requirements of private pilot's written exam.

310 Commercial Ground Instruction (4)

Prereq: private pilot's certificate. 40 hrs of ground instruction covering advanced radio navigation, meteorology, FAA regulations, aircraft construction, performance data and instruments to meet requirements of commercial written exam.

BOTANY

101 Principles of Biology (5)

Introduction to principles and concepts of life; emphasis on interrelationships of structural, functional, reproductive, evolutionary and ecological principles related to cells and organisms. Lab assignments included. (Same as Zoology 101, except that emphasis is on plant life).

102 Plant Biology (5)

Prereq: 101. Morphology and anatomy of seed plants as related to function. Survey of plant kingdom with emphasis on evolutionary relationships and life histories of selected plant groups. Lab assignments included.

Note: Botany 101 and 102 require the use of micro-slides and a viewer; a deposit will be charged, part of which will be refunded if returned in good condition.

133 Nature Study (5)

Designed to develop awareness, understanding and appreciation of living things; emphasis on materials and methods that will be of use to teachers.

BUSINESS ADMINISTRATION

493 Readings (1-15)

Prereq: permission. Readings in selected fields of business administration. Topics selected by student in consultation with faculty member. The amount of credit varies from 1 to 15 hours. A study proposal must be submitted with the application.

BUSINESS LAW

255 Law and Society (4)

Prereq: soph rank. Conceptual approach to origin, nature, structure, functions and procedures of law with study of contractual relationships.

356 Law of the Management Process (4)

Prereq: 255 and jr rank. Conceptual framework of legal nature of organizations, particularly corporations and partnerships; rights, powers and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state and public. Available September, 1975.

442 Law of Property and Real Estate (4)

Prereq: 255 or perm. Property law as an institution and analysis of creation, transfer and relation of various legal interests in property, especially land.

CHEMISTRY**121 Introduction to Chemistry (4)**

Introduction to chemistry through study of atomic and molecular structure, periodic table and states of matter. Recommended for students in College of Engineering and Technology (except chemical engineers), College of Education (except science modular program) and other programs requiring only 1 yr. of chemistry. Credit not allowed for both 121 and 141, Introductory College Chemistry.

122 Chemistry of Solutions (4)

Prereq: 121 or perm. Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. Credit not allowed for both 122 and 142, Chemical Energetics.

301 Organic Chemistry (3)

Prereq: 123, Environmental Chemistry or 143, Quantitative Analysis or perm. Non-lab course designed for students who are not BS chemistry majors and who do not require a full-year course in organic chemistry.

302 Organic Chemistry (3)

Prereq: 301. Continuation of 301. See 301 for description.

**CLASSICAL LANGUAGES
GREEK AND LATIN LANGUAGES****111 Beginning Greek (4)**

Grammar, vocabulary and reading of ancient Attic Greek. A student who has access to audio play back equipment (reel or cassette) is strongly urged to submit a \$2 fee with his registration so that a tape which will become his property may be sent to him for help in learning the spoken language.

112 Beginning Greek (4)

Prereq: 111. Continuation of 111.

113 Beginning Greek (4)

Prereq: 112. Continuation of 112 with readings from the *Dialogues* of Plato, *Histories of Thucydides* and *Herodotus* and *Aesop's Fables*.

LATIN**111 Beginning Latin (4)**

Grammar, vocabulary and reading.

112 Beginning Latin (4)

Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Latin (4)

Prereq: 112. Continuation of 112 with readings on Roman civilization and excerpts from the *Aeneid* and Caezar's *Commentaries*.

211 Intermediate Latin (4)

Prereq: 113 or 2-3 yrs h.s. Latin. Cicero's *Orations*. Efforts made to provide adequate review as well as to progress in reading a new author.

212 Intermediate Latin (4)

Prereq: 211. Continuation of 211. Reading of Vergil.

ECONOMICS**101 Principles (4)**

Prereq: not open to jrs. and srs. Basic theory of national income analysis. Economic problems and economic institutions of society.

102 Principles (4)

Prereq: 101. Continuation of 101. Basic theory and economic analysis of prices, markets, production, wages, interest, rent and profits.

303 Microeconomics (4)

Prereq: 101 or 301, jr; soph if major. Price system as an allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have an understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 101 or 301, jr; soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment and capital formation. Students expected to have an understanding of elementary algebra and geometry.

320 Labor Economics (4)

Prereq: 102 or 302 or 303. Economic forces generating modern labor problems. History of labor movement; labor in politics; labor management relations; wages and full employment.

334 Public Utilities (4)

Prereq: 303. Economic basis of public utility concept and its relation to business organization. Nature, scope, development, legal organization and regulation of public utilities.

340 International Economics (4)

Prereq: 102 or 302 or 303. Economic relations of nations of the world. Some of topics considered are: economic basis for international trade and investment; mechanics of international exchange; tariffs, quotas, exchange control, cartels and state trading as devices of economic nationalism, and international economic cooperation with special reference to organizations affiliated with United Nations.

430 Public Finance (4)

Prereq: 303 or perm. Role played by government as user of economic resources and redistributor of incomes. Some questions explored: need for government's entry into economy, optimal size of government, selection of tax and expenditure schemes and effects of government economic activity on private sector.

493 Readings (1-15)

Prereq: perm. Readings in selected fields of economics. Topics selected by student in consultation with faculty member. A study proposal must be submitted with the application.

ECONOMIC EDUCATION**497 Independent Research (3-5)**

Economics in the curriculum: Designed to provide a study of (1) fundamental economic concepts, (2) methods of inquiry employed by economists. Basic course carries 3 hours credit; additional credit up to 5 hours can be arranged. A study proposal must be submitted with the application.

ELEMENTARY EDUCATION**200 Studies of Children (4)**

Bases for a developmental theory of education; growth sequences through adolescence; principles of development, behavior

and learning; techniques of child-study; implications for educational practice. No credit awarded if HECF 160, Introduction to Child Development or Psych 173, has been taken.

321 Children's Literature (4)

Criteria for selection of children's literature, children's reading interests, preparation of materials for use in literature program, and reading of outstanding literature for children.

ENGINEERING**Review of Engineering Fundamentals (Noncredit)**

Prereq: perm. Review of topics common to all branches of engineering and usually covered as part of the general (first day or E.I.T.) examination for professional engineers. Topics include mathematics, physics, chemistry, economics, electricity, statics, dynamics, strength, thermodynamics and fluid mechanics. Noncredit with fee based on that of a 3 qtr. hr. course.

ENGINEERING, CHEMICAL**200 Introduction to Chemical Engineering (4)**

Prereq: Chem 122 or 142, Chemical Energetics, Math 263A. Applications of chemistry, physics and mathematics to solution of material and energy balances typical of those encountered in process industries.

331 Principles of Engineering Materials (4)

Prereq: Chem 122 or 142, Chemical Energetics. Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic and polymeric materials.

ENGINEERING, CIVIL**220 Statics (4)**

Prereq: Math 263B. Laws of equilibrium of forces, friction, centroids and moment of inertia. Not open to srs.

321 Dynamics (4)

Prereq: 220. Motion of particles and rigid bodies, work and energy, impulse and momentum.

ENGINEERING GRAPHICS**101 Engineering Drawing (3)**

Beginning course for students of engineer-

ing and technology and related fields; basic techniques, processes and standards, multi-view drawing, freehand drafting, fundamentals of dimensioning, section views and sectional assemblies.

103 The Slide Rule (1)

Prereq: 3 yrs h.s. math or perm. Slide rule computations involving multiplication and division, simple powers and roots, trigonometric functions, vectors, logarithms, fractional powers and roots of numbers. Modern 10" Log Log duplex decitrig slide rule required.

ENGLISH LANGUAGE AND LITERATURE

180 Fundamental Usage Skills (3)

Intensive, voluntary, fundamental program in writing, punctuation, grammar, sentence formation, usage and paragraphing skills. Attention to agreement, fragments, pronoun reference, modifiers, tense forms, subordination, etc. Prepares for 181.

181 Contemporary Writing Skills (5)

Prereq: fr and soph only. Rhetorical strategies and stylistic patterns of expository prose. Through example and frequent practice, reviews control of grammar and usage and sharpens attention to audience, selection and organization of material, generalization and evidence, coherence, emphasis, word choice, etc. Students requiring intensive instruction and practice in the most common conventions of grammar and usage should take 180.

201 Interpretation of Fiction (5)

Prereq: 5 hrs above 100. Forms and techniques of art of fiction.

202 Interpretation of Poetry (5)

Prereq: 5 hrs above 100. Intensive reading of selected poems from all periods of English and American literature and study of forms and techniques.

203 Interpretation of Drama (5)

Prereq: 5 hrs above 100. Analysis of dramatic forms.

206 Introduction to Comparative Literature III: The Modern Tradition (5)

Prereq: 5 hrs above 199. Selected literary works which provide background for and express modern sensibility in western literature.

301 Shakespeare, The Histories (5)

Prereq: 5 hrs above 199. History plays.

302 Shakespeare, The Comedies (5)

Prereq: 5 hrs above 199. Comedies.

303 Shakespeare, The Tragedies (5)

Prereq: 5 hrs above 199. Principal tragedies.

304 English Bible (5)

Prereq: 5 hrs above 100. Selected prose and poetry of Old and New Testaments.

308 Advanced Composition (5)

Prereq: jr rank. Aim: to increase skills and expertise in writing of discursive prose. Method: regular practice and evaluation, supplemented by attention to professional prose and concepts in rhetoric and style.

309 Creative Writing (5)*

Prereq: 201 or 202 or 203. Beginning course in creative writing. Will concentrate on processes of invention as they lead to works of fiction. Student manuscripts criticized; creative literary works of recognized importance analyzed; act of writing a continuing practice.

*Students who wish to write poetry, or a combination of poetry and fiction, should contact the Independent Study office about taking English 309 as an independent study project.

321 American Literature to the Civil War (5)

Prereq: 10 hrs above 199. Major works, writers and genres of American literature before the Civil War.

322 American Literature Since the Civil War (5)

Prereq: 10 hrs above 199. Major works, writers and genres of American literature since the Civil War.

331 20th Century British and American Literature (5)

Prereq: 10 hrs above 199. Some major works, writers and genres of British and American literature in this century.

457 Readings in English Education (5)

Prereq: jr rank. Recent developments and writings in English education and their possible application to the teaching of jr and sr high school English.

HUMANITIES

107 Humanities—Great Books (3)

Prereq: fr and soph only. Classics of western civilization leading toward an understanding of cultural heritage. Guidance in

critical thinking, reading and writing about those works.

108 Humanities—Great Books (3)

Prereq: fr and soph only. Continuation of 107. See 107 for description.

109 Humanities—Great Books (3)

Prereq: fr and soph only. Continuation of 107, 108. See 107 for description.

FILM**480 Individual Problems (1-5)**

Prereq: perm. Production of a motion picture. May be repeated. A proposal must be submitted with the application.

481 Individual Readings (1-5)

Prereq: perm. Readings and reports on works related to motion pictures. Reading list selected by student in consultation with faculty member. May be repeated. A study proposal must be submitted with the application.

FINANCE**497 Independent Research (1-15)**

Prereq: perm. Research in selected fields of finance under direction of faculty member. A study proposal must be submitted with the application.

GEOGRAPHY**101 Elements of Physical Geography (5)**

Systematic survey of temperature, precipitation, atmospheric and oceanic circulation and global systems of climate, soils, natural vegetation and landforms.

121 Elements of Cultural Geography (4)

Examination of spatial dimensions of culture, emphasizing patterns of variation of selected cultural elements—language, religion, population, settlement, etc—from spatial perspective and within particular spatial frameworks.

130 Economic Geography (4)

Systematic survey of basic economic patterns, locational factors affecting patterns and spatial interrelationships influencing production.

GOVERNMENT**101 American National Government (4)**

Not open to jrs and srs. Constitutional

basis and development, political processes and organization of American national government.

102 American National Government (4)

Prereq: 101. Continuation of 101. Not open to jrs and srs. Concerned with administration and policy making processes of national government in selected areas; i.e., welfare, civil rights, defense, etc.

204 Politics in the American States (5)

Prereq: 101-102. Comparative analysis of state political systems. Emphasis on structure and process of policy-making of states within a federal context.

333 Comparative Government (4)

Government and politics of Communist party states with particular emphasis on the Soviet Union.

350 International Relations (5)

Prereq: 8 hrs. Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

HEALTH, PHYSICAL EDUCATION AND RECREATION**202C Personal and Community Health (4)**

Practices and appreciation of means whereby health of individual and group may be maintained.

227C First Aid (3)

Principles and practices of American Red Cross first aid. Standard certificate is granted upon completion of an optional one day campus workshop, which can be held if a sufficient number of people request this option.

252C Kinesiology (4)

Prereq: Zool 301, Human Anatomy. Analysis of human movement based on anatomical and mechanical principles.

269C Teaching of Health (5)

Prereq: HPER 202C; EdSe 250, Analysis of Teaching. Instruction, principles and curricula used in presenting health information to pupils in elementary and secondary schools.

370C Community Health Programs (4)

Prereq: 202C, 369C or perm. Institutional frameworks for promoting and maintaining health of the people in community, state and nation.

381C Administration of Intramural Sports (4)
Organizing and administering a program of intramural sports for all age levels.

404C History and Principles of Physical Education (4)

Prereq: jr or sr rank. History of sports and physical education from ancient to modern times. Principles underlying physical education in modern program of education.

406C Organization and Administration of Physical Education (5)

Prereq: jr or sr rank. Organization and administration of physical education, intramural, athletic and recreation programs in elementary and secondary schools.

409C Tests and Measurements (4)

Prereq: sr rank. Administration and evaluation of tests in health, physical education and athletics; practice in handling test data by elementary statistical methods.

449C Community Recreation (4)

Prereq: sr rank. History of play movement, programs and program building, administration of playgrounds, community centers and recreational activities.

HISTORY

Note: When possible, Ohio University history majors should take 101-102-103 in sequence. Other students may take them however they wish.

101 Western Civilization in Modern Times (4)

Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy and imperialism as applied to Portugal, Spain and Hapsburg Empire, and commercial and scientific revolutions.

102 Western Civilization in Modern Times (4)

Continuation of 101. Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy and imperialism as applied to France and Britain; westernization of eastern Europe, enlightenment, French Revolution, agricultural, commercial and industrial revolutions and growth of ideologies—liberalism, socialism and nationalism.

103 Western Civilization in Modern Times (4)

Continuation of 101-102. Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism and nationalism; rise and fall of German bid for power in 2 world wars; new ideologies

of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of western empires in Africa and Asia.

Note: When possible, Ohio University history majors should take 211-212-213 in sequence. Other students may take them however they wish.

211 American History to 1828 (4)

Political, diplomatic, social and economic development of American history. Covers 1607 to 1828: colonial America, founding of the new nation and early national period. (This course makes extensive use of cassette tapes requiring a security deposit of \$18; a refund of \$15 will be made when the tapes are returned in good condition.)

212 History of the United States, 1828-1900 (4)

Continuation of 211. Political, diplomatic, social and economic development of American history. Covers 1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction and impact of expanded Industrial Revolution.

213 History of the United States since 1900 (4)

Continuation of 211-212. Political, diplomatic, social and economic development of American history. Covers 1900 to present: progressive movement, WW I, prosperity and depression, WW II and problems of cold war era. (This course makes extensive use of cassette tapes requiring a security deposit of \$18; a refund of \$15 will be made when the tapes are returned in good condition.)

317A Ohio History to 1851 (4)

Ohio to 1851: prehistoric Ohio; early exploration, settlement, government; statehood and economic development. Formation of political parties, anti-slavery movement, constitutional change. Biographical sketches.

317B Ohio History since 1851 (4)

Ohio since 1851: pre-Civil War politics, Civil War. Economic and political transition during post-Civil War. 20th century problems. Biographical sketches.

HOME ECONOMICS

128 Introduction to Nutrition (3)

Relation of foods and nutrition to growth, development and maintenance of health. Development of good food habits for children and adults.

180 Furnishing Today's Home (3)

Practical and esthetic study of home furnishings, including basic art qualities, studies in color and design, materials used in furnishings, selection and arrangement of furniture and accessories. Available September, 1975.

315 Elementary Textiles (4)

Fundamentals of textiles including study of textile fibers, yarns, fabrics and finishes with reference to production, processing use and care.

390 Family Consumer Economics (3)

Management of personal and family financial problems. Retailing activities as they affect role of consumer.

HUMANITIES - See English**INTERPERSONAL COMMUNICATION****210 Parliamentary Procedure (2)**

Study and practice in both theory and procedures by which organizations are run according to rules of order.

425 Direction of Forensic Programs (3)

Prereq: 103, Public Speaking, 217, Forensic Workshops — Debate or Individual Events, or perm. Study in curriculum, coaching, budgeting, judging, public relations, professionalism and tournament management. Practical application in university and high school forensics programs.

JOURNALISM**250A Advertising Principles (5)**

Major factors in development of advertising programs.

441 Magazine Feature Writing (4)

Prereq: 231, News Reporting and 333, News Editing, 15 hrs English or perm. Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles and surveying markets.

442 Advanced Magazine Feature Writing (3)

Prereq: 441. Writing and marketing magazine articles. Emphasis on specialized markets.

490 Independent Study (1-4)

Prereq: perm. Topic selected by student in consultation with faculty member. The amount of credit varies from 1 to 4 hours.

May be repeated to 15 hours' credit. A study proposal must be submitted with the application.

LIBRARY MEDIA TECHNOLOGY**101 Introduction to Libraries and Library Technology (3)**

General introduction to libraries and their organization. Designed for students interested in employment as library technical assistants in special, school, public or college libraries.

LIBRARY SCIENCE**303 Library Science The School Library - Media Center (5)**

The course covers the methods and materials required for organizing and developing school media center services. Non-print and print materials are covered as well as programs carried out in a center with the students and faculty. It is a course which can satisfy one of the requirements for school media certification.

MANAGEMENT**493 Readings (1-15)**

Prereq: perm. Readings in selected fields of management and organizational behavior. Topics selected by student in consultation with faculty member. The amount of credit varies from 1 to 15 hours. A study proposal must be submitted with the application.

MARKETING**301 Marketing Principles (4)**

Prereq: Econ 101 or 301 and jr rank (3rd qtr soph if marketing major). Principles of marketing management with emphasis on practices and problems of marketing manager; analysis of marketing environment supplemented with cases.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of marketing. Topics selected by student in consultation with faculty member. A study proposal must be submitted with the application.

MATHEMATICS**011 Elementary Algebra (5)**

For students with no high school algebra.

113 Algebra (5)

Prereq: at least 1 yr h.s. algebra. Review topics in high school algebra including linear and quadratic equations and inequalities, factoring, fractions, radicals and exponents and simple graphing techniques.

115 Introduction to Mathematics (5)

Prereq: 3 yrs. high school math. This is a precalculus course. It prepares the student for taking freshman calculus in college. Real numbers and their properties, functions, and graphs, exponential, logarithmic and polynomial functions, equations of higher degree, mathematical induction, progressions, complex numbers. No credit awarded if Math 113 has been taken.

116 Analytic Trigonometry (2)

Prereq: 2 yrs h.s. math. Trigonometric functions and their properties, identities, equations and applications.

120 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Emphasis on the number system and related properties. Primarily for majors in elementary education and related fields.

121 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Topics include algebra, geometry, statistics and probability. Primarily for majors in elementary education and related fields. 120 is not a prerequisite.

163A Introduction to Calculus (4)

Prereq: 2 yrs h.s. math or 113 or equiv. Presents survey of basic concepts of calculus. A sequence for students who want an introduction to calculus but do not need the depth of Math 263 A-B-C. Note: Not open for credit without permission to students who have credit for Math 263A.

230 Foundations of Geometry (5)

Prereq: 113 or 4 yrs h.s. math, or perm of math dept. Introduction to axiomatic mathematics via 2 finite geometries and a variety of interpretive models. Develops plane Euclidean and non-Euclidean geometries in rigorous fashion from a modified Hilbert axiom system.

263A Analytic Geometry and Calculus (5)

Prereq: 113 and 116, 130, Plane Analytic Geometry or 4 yrs h.s. math or perm of math dept. 263A-B-C is a basic introduction to calculus with emphasis on techniques and their applications. Topics covered: functions and limits, differentiation and integration, analytic geometry, vectors, transcendental functions, polar coordinates,

solid analytic geometry, partial differentiation, multiple integrals, infinite series. Note: Not open for credit without permission to students who have credit for both Math 163A and B.

263B Analytic Geometry and Calculus (5)

Prereq: 263A or 163B or equiv. Continuation of 263A.

320 Teaching of Mathematics in Secondary School (5)

Prereq: 214, Elementary Abstract Algebra, 230 and jr rank. Orientation to professional mathematics education and topics related to teaching of mathematics on secondary school level. Not counted toward math major.

MUSIC**321 History and Literature of Music (3)**

Prereq: 103. History of music with survey of musical literature to 1450. Equipment for playing audio tapes (either reel or cassette) is required. A deposit of \$7.00 will be charged; \$5.00 will be refunded when the tapes are returned in good condition.

PHILOSOPHY**101 Fundamentals of Philosophy (5)**

Survey of selected basic problems, concepts and methods in philosophy. Available September, 1975.

120 Principles of Reasoning (4)

Prereq: not open to those who have had former 102. Use of evidence in establishing reliable conclusions.

130 Introduction to Ethics (4)

Prereq: not open to those who have had former 103. Discussion of classic and/or modern philosophical views of human values, ideals and morality. Provides an introductory survey of some of the main problems, concepts and results of ethics including selected philosophers of the past and present.

301 Introduction (3)

Prereq: not open to those who have had 101. Analysis of typical philosophical problems arising in study of nature, society and religion for purpose of developing a thoughtful and consistent intellectual perspective.

Ohio University Extension Division

Independent Study

APPLICATION FOR ENROLLMENT

SOCIAL SECURITY NUMBER _____

LAST NAME	FIRST NAME	MIDDLE NAME
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Present Address

NUMBER _____ STREET _____ CITY _____ STATE (ZIP) _____ COUNTY _____

Telephone Number

AREA CODE _____

Permanent Address

NUMBER _____ STREET _____ CITY _____ STATE (ZIP) _____ COUNTY _____

Telephone Number

AREA CODE _____

Occupation _____

Date of Birth _____

What program are you registering for? (please check)

Course Credit by Examination Independent Study Course Independent Study Project

Course: Department and Number

Title

Credit Hours

Do you expect to apply this credit to a degree? yes ____ no ____

Do you want to enroll under the pass-fail option? yes ____ no ____

If yes to either question, written permission from your academic dean should be given below or sent by separate letter to the Independent Study Office. (Ohio University students should use permission slips available in their academic dean's office.)

SIGNATURE

TITLE

INSTITUTION

EDUCATION

	Name and Location of Institution	Dates Attended From _____ To _____	No. of College Credits (Sem. or Qtr.) earned	Diploma or Degree
High School				
College or University				

Purpose of Enrollment (please check most appropriate).

Professional Advancement

Ohio University Degree Credit

Degree Credit—Other Institution

Personal Satisfaction

College Entrance

Other (please specify)

If yes, have you provided the proper documentation required on initial registration? yes ____ no ____

Are you currently enrolled in Independent Study at Ohio University? yes ____ no ____

If yes, what course? _____

Have you previously enrolled in Independent Study at Ohio University? yes ____ no ____
If yes, what course? _____

Have you applied for External Student Status with the Independent Study Office? yes ____ no ____
(Not necessary for enrollment)

Please give any deadline, such as graduation, you expect to meet. _____

If you are taking Independent Study courses, do you want airmail service? yes ____ no ____
(See Bulletin for rates.)

FEES (Per Credit Hour):

Independent Study Courses	\$17.50
Independent Study Projects	\$17.50
Course Credit by Examination	\$ 7.50

Enclose a check or money order payable to Ohio University for the required fee and mail to Independent Study, Tupper Hall, Ohio University, Athens, Ohio 45701.

Amount enclosed:

Fee _____
Airmail _____ (Independent Study Courses)
Total _____
(not necessary in immediate region)

In signing this application I agree to abide by the policies governing Independent Study found in the current
Ohio University Bulletin.

Prerequisites: How have you satisfied any prerequisites listed for the course(s)?
(Independent Study courses and Projects only)

Is this the first time you are enrolling for the course(s)? yes ____ no ____

If no, were you enrolled for the course via: Independent Study ____ CCE ____ Campus ____

If you are an Ohio University student, what college are you in ____ Class Rank ____

If you are not an Ohio University student, have you secured permission from the college where you plan to use
the credit? yes ____ no ____

If you are a high school student, have you secured a written recommendation from your school principal or
guidance counselor? yes ____ no ____

(over)

PHYSICAL EDUCATION - See Health, Physical Education and Recreation.

PHYSICAL SCIENCE

101 Physical World (3)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun and galaxies.

102 Physical World (3)

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of heat, nuclear physics, atomic physics and chemistry. Topics in chemistry include classification of elements, molecules, chemical reactions, solutions and large molecules, including plastics and DNA.

103 Physical World (3)

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of meteorology and geology. Topics in meteorology include atmosphere, winds, clouds, storms and weather. Topics in geology include rocks and minerals, gradation, earthquakes, continental drift and the ocean.

PHYSICS

Note: These courses carry no laboratory credit unless one additional hour is earned in a campus laboratory course.

201 Introduction to Physics (3)

1st course in physics; open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Mechanics of solids and liquids, heat and thermodynamics.

202 Introduction to Physics (3)

Prereq: 201. Continuation of 201. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Includes electricity, magnetism, waves, sound and light.

203 Introduction to Physics (3)

Prereq: 202. Continuation of 202. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. In-

cludes relativity, quantum, atomic and nuclear physics.

PSYCHOLOGY

101 General Psychology (5)

Introduction to psychology dealing primarily with learning, motivation and sensory processes.

121 Elementary Statistics for the Behavioral Sciences (5)

Prereq: 101 and Math 113 or 3 yrs h.s. mathematics. Measures of central tendency, variability, correlation and simplest tests of hypotheses.

131 Psychology of Adjustment (4)

Prereq: 101. Dynamics, development and problems of human adjustment. Available September, 1975.

173 Child and Adolescent Psychology (5)

Prereq: 101, not for students with EdEl 200. Behavior from infancy through adolescence.

275 Educational Psychology (5)

Prereq: 101 and 121 or equiv. Psychological foundations of education, with major emphasis upon learning, transfer, motivation and evaluation.

332 Abnormal Psychology (5)

Prereq: 101, jr or sr rank. Behavior disorders, their cause and effects on person, family and society.

QUANTITATIVE METHODS

201 Introduction to Probabilities and Statistics (4)

Prereq: 200, Introduction to Business Data Processing. Theoretical distributions, sampling, estimation (point and interval), hypothesis testing, simple regression and correlation.

RADIO-TELEVISION

106 Introduction to Radio-Television (4)

Organization, structure and function of broadcasting as a medium of mass communication.

SOCIOLOGY

302 Principles of Sociology (5)

Prereq: jr or sr rank. Nature of human society and factors affecting its develop-

ment. Fundamental concepts of sociology: culture, personality, groups, institutions. (Not open to students who have taken 101, Introduction to Sociology.)

327 Sociology of Education (4)

Prereq: 8 hrs. School as social institution in relation to community and development of child; comparative systems of education; sociology of learning and teaching.

351 Elementary Research Techniques (4)

Prereq: 8 hrs. Research techniques in sociology. Research design; collection, recording and analysis of data.

THEATER

499 Independent Readings (1-12)

Prereq: permission. The amount of credit varies from 1 to 12 hours; course may be repeated for a total of 12 hours. The student selects a topic to study and write on under the direction of a professor. A study proposal must be submitted with the application.

SPEECH - See Interpersonal Communication

UNIVERSITY COLLEGE

Effective Study Skills

Developing effective skills in the areas of reading, writing, and studying is critical to success at the university. This course focuses on the art of critical reading and critical thinking, psychological and sociological factors which influence learning, learning resources, means for improving your studying, and a strategy for getting involved in your education. This course is noncredit toward a degree with the fee based on that of a 1 qtr. hr. course. (A cassette tape is used for this course; a required deposit of \$1 will be refunded when the tape is returned in good condition.)

ZOOLOGY

101 Principles of Biology (5)

Principles and concepts of biology. Emphasis on principles of cellular biology, classical and modern genetics, ecology and evolution. Integration of all topics to show interrelationships of genetics, reproduction, development and evolution. (Same as Bot 101, except that emphasis is on animal life.)

103 Human Biology (4)

Effect of man on ecosystem, including pollution and population relationships. Emphasis on drugs, their abuse, their pharmacology and recent research findings on effects of drugs on humans. Reproductive physiology, contraceptive technology and research, biological aspects of abortion and venereal disease.

345 Human Physiology (4)

Prereq: 300, Elements of Anatomy and Histology or 301, Human Anatomy; not open to fr. Functions of various systems as applied to the human. Special reference to physiological adaptations to environment and regulatory functions. For education, medical technology, physical education and prephysical therapy students only.

382 Topics in Zoology (1-3)

Prereq: 101 or Bot 101, perm of specific instructor. Credit not applicable toward major in zoology or microbiology. The student selects a topic to study and write on under the direction of a professor. The professor and student must agree on the topic and breadth. There is no examination and the grade is determined by the quality of the paper or student participation. The amount of credit varies from 1 to 3 hours; students enrolling for 3 hours would be expected to do a more complex project or one that might be more in depth. A study proposal must be submitted with the application.

384 Bioethics (5)

Topics deal with problems created by new biology: psychosurgery and behavior modification, genetic engineering, euthanasia, test-tube fertilization, human experimentation.

482 Topics in Zoology (1-6, max 8)

Prereq: 20 hrs of zoology including 203, Principles of Zoology; 2.5 gpa in major courses, perm. The student selects a topic to study and write on under the direction of a professor. The professor and student must agree on the topic and breadth. There is no examination and the grade is determined by the quality of the paper or student participation. The amount of credit varies from 1 to 6 hours; students enrolling for 5 or 6 hours would be expected to do a more complex project or one that might be more in depth. This type of course would be of value to science teachers or students with some background. A study proposal must be submitted with the application.

INDEPENDENT STUDY PROJECTS

A description of the nature of the independent study project option is given on page six of this *Bulletin*. This section gives the specific policies and procedures which apply to Independent Study Projects. You should also read carefully the section on "General Information" before enrolling.

Courses

You may request that the Independent Study office try to arrange an independent study project for you in any undergraduate course offered by Ohio University except those that are available as independent study courses. There is a list of the courses available as Independent Study Courses beginning on page fourteen of this *Bulletin*. A complete listing of the undergraduate courses offered by Ohio University is contained in the *Ohio University Bulletin*. The *Ohio University Bulletin* is often available in local libraries or you may request a listing of the undergraduate courses available in particular areas from the Independent Study office.

How to Enroll

You must enroll using the application found in the centerfold of this *Bulletin* before the Independent Study office will attempt to arrange for the project. The application, together with a check or money order payable to Ohio University for the course fee should be mailed to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

The fee is \$17.50 per quarter hour for Ohio residents and \$20.00 per quarter hour for non-residents (see the section on "Fees" under "General Information"). If the project cannot be arranged your fee will be refunded in full. If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Independent Study. If you are currently enrolled at another institution

of higher education or if you plan to transfer the credit earned, you should obtain written permission from the college that is to accept the credit. Others do not need any special permission.

Study Proposal

After reading the description of the course you would like to take using the Independent Study Project option you may either submit a study proposal with your application which outlines how you propose to meet the course requirements, or you may elect to have the instructor structure your project. If you submit a study proposal that is not consistent with the course requirements it may be rejected or modified by the instructor. A study proposal form can be supplied at your request.

Grades

The method of grading will vary with each project. Final grades are reported on an A to F scale. Plus and minus signs may be reported together with the letter grade, for example, B+. A final grade report will be sent to you at the same time the grade is reported to the Office of Student Records. See the "General Information" section for information on the pass-fail option.

Time Limit

You are allowed one year from the date of enrollment to complete an Independent Study Project. If the work has not been completed in that length of time, an extension of three months can be requested. When approved, the fee for an extension of time is \$5.00. In certain cases a second extension may be granted. If a student fails to apply for an extension before his enrollment expires and he is withdrawn, a reinstatement fee of \$10.00 in addition to the extension fee must be paid. Reinstatements can be authorized only during the three month period following the expiration of the initial enrollment.

Fee Refund Policy

If your Independent Study Project cannot be arranged your fee will be refunded in full. If you request withdrawal within two months from the date of your enrollment and no consultation or evaluation has been performed by the instructor, other than that involved in establishing the study proposal, one-half of the course fee will be returned. If the instructor has been involved in additional consultation or evaluation, there will be no refund. No refunds will be authorized after two months from the date of enrollment.

Transfers

You are permitted to change your registration once to one other regularly offered independent study course or course credit by examination during the first six months of enrollment. You must pay the difference in fees, if any. The amount transferred to the new fee will be the same amount that you would be entitled to as a refund during the first two months of enrollment (see the section on "Fee Refund Policy"). No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original registration remains effective for all transfers.

COURSE CREDIT BY EXAMINATION

The nature of the Course Credit by Examination Program is explained on page six of this *Bulletin*. This section of the *Bulletin* gives information about the specific policies and procedures for Course Credit by Examination along with a list of courses available in this option. You should also read carefully the section on "General Information" for the general policies which apply to this program. When you register for Course Credit by Examination you will receive a brief syllabus containing a short course description, a list of the required textbooks, and information on the nature of the examination. You will be responsible for preparing for the examination on your own. If you feel you need the help of a professor, you should consider an independent study course or an independent study project.

How to Enroll

Select the course or courses for which you wish to enroll from the list of courses available in the Course Credit by Examination Program and complete the enrollment form in the centerfold of this *Bulletin* and mail it to:

Independent Study
Tupper Hall
Ohio University
Athens, Ohio 45701

A check or money order payable to Ohio University for the course fee should be included. The fee is \$7.50 per quarter hour. If you are an Ohio University student you should obtain a permission slip from your college office to enroll in Course Credit by Examination. If you are currently enrolled at another institution of higher education or if you plan to transfer the credit earned, you should obtain written permission from the college that is to accept the credit. Others do not need any special permission.

Special Course Credit by Examination

Special arrangements can sometimes be made for Course Credit by Examination in courses not listed here. The Independent Study office will try to make arrangements for a special examination in any course listed in the *Ohio University Bulletin-Undergraduate Catalog* for students not in the Athens area. If you wish to have the Independent Study office try to arrange such a special examination, you must enroll and pay the fee for course credit by examination in the usual manner. If the Inde-

pendent Study office is unable to arrange for your examination your fee will be refunded in full.

Information on how to arrange for Course Credit by Examination for Athens area students can be obtained at the Independent Study office.

Grades

The usual letter grades of A to F are given with plus and minus signs often used together with the letter, for example, B+. Failures are not reported to the Office of Student Records and will not appear on your record. Your examination grade will be reported to you by mail about ten days after examination. See the "General Information" section for information about the pass-fail option.

Examinations

If you reside near an Ohio University campus you may take your examination at that campus (see the list on page twelve). Others can arrange to have their examinations proctored at another college or university or, if it is more convenient at a local high school. Ohio University reserves the right to reject a proposed examination supervisor. Detailed information about examination procedures will be included with your enrollment material.

Repeating an Examination

With approval of the instructor (and the academic dean, if you are an Ohio University student) you are permitted to repeat an examination. However, you must wait six weeks before taking the second examination. In order to be eligible to repeat, you will have to register again and pay the required fee.

Fee Refund Policy

Regular Course Credit by Examination Offerings - You will receive a full refund if you are refused enrollment. If you withdraw within one month of the date of your enrollment, the course fee less \$10.00 will be refunded. No refunds will be given after one month from the date of enrollment.

Specially Arranged Course Credit by Examination - You will receive a full refund if you are refused enrollment. If you withdraw within one month of the date of your enrollment, the course fee less \$15.00

will be refunded. No refunds will be given after one month from the date of enrollment.

Transfers

You are permitted to change your registration once to another regularly offered independent study offering during the first three months of enrollment. You must pay the difference in fees, if any. The amount transferred to the new fee will be the same amount that you would be entitled to as a refund during the first month of

enrollment. No refund of the original fee will be made. Fees cannot be transferred from one student to another or from independent study to campus study. The date of the original enrollment remains effective for all transfers.

Time Limit

You can take the examination whenever you are prepared. The examinations usually last three hours. You must take the examination within six months of your enrollment date.

LIST OF COURSES

This list contains the courses available on a regular basis under the Course Credit by Examination option at the time this *Bulletin* was printed. Periodic supplements to this *Bulletin* will note any courses added or deleted. A list of Independent Study Courses appears elsewhere in this *Bulletin*. The prerequisites listed in this section are simply intended to give you guidance in determining the background necessary to take the examination.

ACCOUNTING

101 Managerial Accounting (4)

Uses of accounting information for making managerial decisions.

102 Managerial Accounting (4)

Prereq: 101. Continuation of 101. See 101 for description.

ARCHAEOLOGY

201 Introduction to Archaeology—Egypt (5)

Aims, methods and techniques; general types of archaeological work and excavation. Open to students who have had 203 and/or 352. As well as to beginners.

203 Introduction to Archaeology—Rome (5)

Similar to 201, but with emphasis on Roman sites and antiquities. Open to students who have had 201 and/or 352, as well as to beginners.

352 Archaeology of Greece (5)

Prereq: 201 or 203; or 18 hrs foreign language; or 12 hrs history or art history. Archaeology of Greece and Aegean Islands, with emphasis on Minoan and Mycenean civilizations.

ARCHITECTURE

462 Structural Analysis—Steel (3)

Theory and design of structural systems, with emphasis on steel.

ART HISTORY

211 History of Art (3)

This beginning course in the Art History survey places prime emphasis on the differentiation of cultures as shown through their art. Periods such as the Old Kingdom, Greek and Roman will be covered.

212 History of Art (3)

The second part of the Art History survey covers the art of the Medieval and Renaissance Periods.

213 History of Art (3)

The last section of the three-part Art History sequence, deals with art from the Baroque Era to the present.

Examinations in other art history courses are available. Request a complete listing. Information concerning previous work in art history must be submitted.

AVIATION**110 Primary Ground Instruction (4)**

40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction and performance data to meet requirements of private pilot's written exam.

310 Commercial Ground Instruction (4)

Prereq: private pilot's certificate. 40 hrs ground instruction covering advanced radio navigation, meteorology, FAA regulations, aircraft construction, performance data and instruments to meet requirements of commercial written exam.

315 Flight Instructor Ground Instruction (4)

Prereq: commercial pilot's certificate or perm. 40 hrs review of all previous instruction with emphasis on how to instruct and a breakdown of maneuvers. Covers requirements for flight instructor written exam.

415 Instrument Ground Instruction (4)

Prereq: commercial pilot's certificate or perm. 30 hrs ground instruction on flying solely by reference to instruments to meet requirements of instrument written exam. Included are maneuvers, navigation, meteorology, radio procedures and instrument interpretation.

418 Instrument Instructor Ground Instruction (3)

Prereq: instrument rating. 30 hrs review of instrument course with emphasis on how to instruct instrument flying. Covers requirements for instrument written exam.

421 Airline Transport Ground Instruction (4)

Prereq: instrument rating and multi-engine rating. 40 hrs advanced course placing major emphasis on specific requirements and duties of airline transport pilots in accordance with Federal Aviation Regulations. Provides aeronautical requirements for airline transport pilot written exam.

Examinations in flight courses are available on request. Interested persons should submit a statement concerning their aeronautical knowledge and skills. Flight examinations are given only in Athens.

BLACK STUDIES**107 Introduction to Afro-American History (5)**

In-depth study of impact of Afro-American people on general development of Ameri-

can society with particular emphasis on Reconstruction and Civil Rights Movement of the 50s and 60s.

201 History of the Black Worker (5)

Analysis of historical role of black labor force in the American economy, with emphasis on pattern of relationships between black workers and general organization of American labor movement.

204 Comparative Study of Injustice (5)

Examination of history of oppression of nationalities in southern Africa and the United States; role of racism as a factor, social and psychological effects on society; parallel study of anti-oppression movements in both worlds.

358 Literature of South Africa (5)

Analysis of novels, plays, poetry, short stories, from historical as well as artistic perspective; examination of forces that produce these documents of history.

BOTANY**101 Principles of Biology (5)**

Introduction to principles and concepts of life; emphasis on interrelationships of structural, functional, reproductive, evolutionary and ecological principles related to cells and organisms. (Same as Zool 101, except that emphasis is on plant life.)

BUSINESS ADMINISTRATION**310 Production Management (4)**

Prereq: jr rank. Emphasis on organization of production function and its relationship to other management and functional activities.

BUSINESS LAW**255 Law and Society (4)**

Prereq: soph rank. Conceptual approach to origin, nature, structure, functions and procedures of law with study of contractual relationships.

356 Law of the Management Process (4)

Prereq: 255 and jr rank. Conceptual framework of legal nature of organizations, particularly corporations and partnerships; rights, powers and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state and public.

357 Law of Commercial Transactions (4)

Prereq: 255 and jr rank. Legal aspects of commercial paper, consumer credit and bankruptcy.

CHEMISTRY**121 Introduction to Chemistry (4)**

Introduction to chemistry through study of atomic and molecular structure, periodic table and states of matter. Recommended for students in College of Engineering and Technology (except chemical engineers), College of Education (except science modular program) and other programs requiring only 1 yr of chemistry. Credit not allowed for both 121 and 141, Introductory College Chemistry.

122 Chemistry of Solutions (4)

Prereq: 121 or perm. Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. Credit not allowed for both 122 and 142, Chemical Energetics.

123 Environmental Chemistry (4)

Prereq: 122 or perm. Designed to survey organic chemistry, biochemistry and nuclear chemistry and their impact on environment.

CLASSICAL LANGUAGES IN ENGLISH**401 The Life of the Romans (3)**

Prereq: 12 hrs or 12 hrs history and antiquities. Family, house, transportation, public amusements. Illustrations from archaeological evidence. No knowledge of Latin required. No credit toward meeting foreign language requirement.

ECONOMICS**101 Principles (4)**

Prereq: not open to jrs and srs. Basic theory of national income analysis. Economic problems and economic institutions of society.

102 Principles (4)

Prereq: 101. Continuation of 101. Basic theory and economic analysis of prices, markets, production, wages, interest, rent and profits.

301 Introduction to Economic Analysis (4)

Prereq: not open to fr or to those who have had 101 and 102. Description same as for 101, but content treated at more advanced level.

302 Introduction to Economic Analysis (4)

Prereq: 301. Not open to those who have had 102. Continuation of 301. See 102 for description, but content treated at more advanced level.

303 Microeconomics (4)

Prereq: 101 or 301, jr; soph if major. Price system as an allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have an understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 101 or 301, jr; soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment and capital formation. Students expected to have an understanding of elementary algebra and geometry.

ENGINEERING, CHEMICAL**200 Introduction to Chemical Engineering (4)**

Prereq: Chem 122 or 142, Chemical Energetics, Math 263A. Applications of chemistry, physics and mathematics to solution of material and energy balances typical of those encountered in process industries.

302 Chemical Engineering Thermodynamics and Kinetics (4)

Prereq: 200, Math 263C. Application of thermodynamics to chemical engineering problems in chemical equilibrium for homogeneous and heterogeneous systems, mixtures and pure materials. Applications of chemical kinetics to design of chemical reactor systems.

331 Principles of Engineering Materials (4)

Prereq: Chem 122 or 142, Chemical Energetics. Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic and polymeric materials.

Examinations in other courses in chemical engineering are available. Request a complete listing. Information concerning previous education in chemical engineering must be included.

**ENGINEERING, CIVIL, ELECTRICAL
AND MECHANICAL**

Examination in non-laboratory engineering courses are available. Request a complete listing. Information concerning previous education in engineering must be submitted.

ENGINEERING GRAPHICS**101 Engineering Drawing (3)**

Beginning course for students of engineering and technology and related fields; basic techniques, processes and standards, multi-view drawing, freehand drafting, fundamentals of dimensioning, section views and sectional assemblies.

**ENGINEERING, INDUSTRIAL
AND SYSTEMS**

Examinations in non-laboratory courses are available upon request.

ENGLISH LANGUAGE AND LITERATURE**301 Shakespeare, The Histories (5)**

Prereq: 5 hrs above 199. History plays.

302 Shakespeare, The Comedies (5)

Prereq: 5 hrs above 199. Comedies.

303 Shakespeare, The Tragedies (5)

Prereq: 5 hrs above 199. Principal tragedies.

314 Romantic and Victorian Literature (5)

Prereq: 10 hrs above 199. Major works, writers and genres of Romantic and Victorian periods.

315 American Literature (3)

Prereq: 5 hrs of English or jr rank. Major and minor authors, themes, genres, etc., usually in 19th and 20th century American literature.

**321 American Literature to the Civil
War (5)**

Prereq: 10 hrs above 199. Major works, writers and genres of American literature before the Civil War.

HUMANITIES**107 Humanities—Great Books (3)**

Prereq: fr and soph only. Classics of western civilization leading toward an under-

standing of cultural heritage. Guidance in critical thinking, reading and writing about those works.

108 Humanities—Great Books (3)

Prereq: fr and soph only. Continuation of 107.

109 Humanities—Great Books (3)

Prereq: fr and soph only. Continuation of 107, 108.

307 Humanities—Great Books (3)

Prereq: jr and sr only. Classics of western civilization, leading toward an understanding of cultural heritage. Guidance in critical thinking, reading and writing about those works.

308 Humanities—Great Books (3)

Prereq: jr and sr only. Continuation of 307.

309 Humanities—Great Books (3)

Prereq: jr and sr only. Continuation of 307, 308.

FINANCE**325 Managerial Finance (4)**

Prereq: Acct 102 and jr rank (3rd qtr soph if finance major). Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

455 International Finance (4)

Prereq: 325 or perm. Problems in international finance. Financing international trade and other transactions; foreign exchange market and exchange market and exchange rates; international payments system. Foreign central banking and current developments in international financial cooperation.

GEOGRAPHY**101 Elements of Physical Geography (5)**

Systematic survey of temperature, precipitation, atmospheric and oceanic circulation and global systems of climate, soils, natural vegetation and landforms.

121 Elements of Cultural Geography (4)

Examination of spatial dimensions of culture, emphasizing patterns of variation of selected cultural elements—language, religion, population, settlement, etc.—from

spatial perspective and within particular spatial frameworks.

130 Economic Geography (4)

Systematic survey of basic economic patterns, locational factors affecting patterns and spatial interrelationships influencing production.

GEOLOGY

101 Earth Materials and Structure (4)*

Nature and distribution of earth materials and their utilization as natural resources; discussion of earth structure, earthquakes, mountain building and continental drift. Not open to students who have had 283 Geology for Engineers.

102 Surface Processes and Environmental Geology (4)*

Consideration of those processes and resources that influence man's utilization of surface of the earth. Not open to students who have had 283. It is recommended that students who plan to take both 101 and 102 take 101 first. Majors should take 330, Principles of Morphology instead of 102.

103 Elements of Geology, Historical (4)

Prereq: 101 or 102. Earth history, emphasizing geologic history of North America. BS majors should take 356, Historical Geology instead of 103.

*The laboratory portion of the examination must be taken on the Athens campus.

GOVERNMENT

101 American National Government (4)

Not open to jrs and srs. Constitutional basis and development, political processes and organization of American national government.

102 American National Government (4)

Prereq: 101. Continuation of 101. Not open to jrs and srs. Concerned with administration and policy making processes of national government in selected areas; i.e., welfare, civil rights, defense, etc.

HEALTH, PHYSICAL EDUCATION AND RECREATION

202C Personal and Community Health (4)

Practices and appreciation of means whereby health of individual and group may be maintained.

227C First Aid (3)

Principles and practices of American Red Cross first aid. Standard certificate is granted upon completion of an optional one day campus workshop, which can be held if a sufficient number of people request this option.

406C Organization and Administration of Physical Education (5)

Prereq: jr or sr rank. Organization and administration of physical education, intramural, athletic and recreation programs in elementary and secondary schools.

HEARING AND SPEECH SCIENCES

108 Introduction to Speech Disorders (3)

Symptoms, causes, effects and evaluation of disorders of speech, voice and language.

310 Language Development (5)

Prereq: 309, Phonetics. Provides foundation in normal speech and language development. Development of meaning, symbolic representation, morphology and syntax.

313 Respiratory and Phonatory Mechanisms (3-4)

Structures, musculature and functions involved in respiration, phonation, resonance and articulation for speech.

314 Articulatory and Auditory Mechanisms (3-4)

Prereq: 313. Structures, musculature, functions and neurology involved in audition and speech.

350 Speech Science (3-4)

Physical properties of speech signal. Analysis of speech and speech reception.

415 Stuttering (5)*

Prereq: HSS majors only; 9 hrs psychology. Consideration of causes, types and effects of stuttering. Evaluation of stuttering. Practical consideration of therapy for stutterers, with emphasis on children's problems.

424 Neuropathologies of Speech and Language (3-4)*

Prereq: 313, 314. Types, causes and syndromes of more significant pathologies of speech and language. Particular attention paid to neurological disorders.

*Chairman's permission required.

HISTORY

Note: When possible, Ohio University history majors should take 101-102-103 in sequence. Other students may take them however they wish.

101 Western Civilization in Modern Times (4)

Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy and imperialism as applied to Portugal, Spain and Hapsburg Empire, and commercial and scientific revolutions.

102 Western Civilization in Modern Times (4)

Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy and imperialism as applied to France and Britain; westernization of eastern Europe, enlightenment, French Revolution, agricultural, commercial and industrial revolutions and growth of ideologies—liberalism, socialism and nationalism.

103 Western Civilization in Modern Times (4)

Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism and nationalism; rise and fall of German bid for power in 2 world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of western empires in Africa and Asia.

111 The Origins of Western Civilization (4)

Birth of civilization in Near East, culture of Greece and Rome, coming of Christianity and medieval European states surveyed. Emphasis upon cultural contributions of these earlier societies to modern western civilization.

Note: When possible, Ohio University history majors should take 211-212-213 in sequence. Other students may take them however they wish.

211 American History to 1828 (4)

Political, diplomatic, social and economic development of American history. Covers 1607 to 1828: colonial America, founding of the new nation and early national period.

212 History of the United States, 1828-1900 (4)

Political, diplomatic, social and economic developments of American history. Covers

1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction and impact of expanded Industrial Revolution.

213 History of the United States since 1900 (4)

Political, diplomatic, social and economic development of American history. Covers 1900 to present: progressive movement, WW I, prosperity and depression, WW II and problems of cold war era.

329A Ancient History—Near Eastern Civilization (4)

Prehistoric eras, origins of Mediterranean civilizations, problems of ancient chronology, civilizations of Sumerians, Babylonians, Egyptians, Assyrians, Biblical Hebrews and Persians. Stresses archaeological and literary sources, comparative social and religious concepts, acculturation, contributions to western civilization.

329B Ancient History—Hellenic Civilization (4)

Aegean prehistory, Minoan civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of the polis, Athenian society and culture, Persian and Peloponnesian Wars, political history of Greece to Alexander. Stresses archaeological sources, mythology and drama, Hellenic contributions to western civilization.

329C Ancient History—Roman Civilization (4)

Early peoples of Italy, Etruscans, constitutional development of the Republic, growth of the empire, the civil wars, history of the principate to Constantine. Stresses archaeological sources, Latin literature, Roman life and institutions, Roman contributions to western civilization.

HOME ECONOMICS**390 Family Consumer Economics (3)**

Management of personal and family financial problems. Retailing activities as they affect role of consumer.

HUMANITIES - See English**INDUSTRIAL TECHNOLOGY****115 Metal Fabrication (4)***

Production practice, including cutting, forming and joining of metals.

216 Metal Machining (4)*

Operation of cutting, grinding and electrical discharge machines, with emphasis on factors affecting quality control during production.

220 Small Engines (3)*

Assembly, adjustment and gauging procedures, as applied to small 2-cycle and 4-cycle gasoline engines.

250 Wood Industry (5)*

Prereq: EG 101. Woodworking procedures and technology, including machine operation.

320 Hydraulic Controls (3)*

Prereq: Phys 201. Application of hydraulic principles to common industrial utilizations for power transmission and mechanism control. Emphasis on study of hardware and circuitry.

332 Electronics (5)*

Prereq: Phys 202. Experimental activity to develop proficiency in utilizing test instruments; learning characteristics of components commonly employed in simple circuits.

*A performance evaluation on the Athens campus is required in addition to a written examination.

INTERPERSONAL COMMUNICATION

335 Bases of Speech Communication (3)

Prereq: 107, Introduction to Verbal Language Behavior or perm. Theory underlying source and message variables with emphasis upon linguistic dimensions of language in speech communication.

450 Introduction to Rhetorical Theory (3)

Prereq: 103, Public Speaking or 215, Argumentation and Debate. Ancient and modern rhetorical communicative concepts and theories.

JOURNALISM

250A Advertising Principles (5)

Major factors in development of advertising programs.

311 History of American Journalism (5)

Prereq: major or perm. Development of newspaper, magazine and broadcast journalism from colonial period to present. Social, political, economic and mechanical aspects.

MARKETING

301 Marketing Principles (4)

Prereq: Econ 101 or 301 and jr rank (3rd qtr soph if marketing major). Principles of marketing management with emphasis on practices and problems of marketing manager; analysis of marketing environment. (Cassette tapes are recommended for students taking this examination. There is an \$8.00 deposit required. \$6.00 of the deposit will be returned when the tapes are returned in good condition. Students on campus may listen to tapes in the language laboratory.)

MATHEMATICS

113 Algebra (5)

Prereq: at least 1 yr h.s. algebra. Review topics in high school algebra including linear and quadratic equations and inequalities, factoring, fractions, radicals and exponents and simple graphing techniques.

116 Analytic Trigonometry (2)

Prereq: 2 yrs h.s. math. Trigonometric functions and their properties, identities, equations and applications.

120 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Emphasis on the number system and related properties. Primarily for majors in elementary education and related fields.

121 Elementary Topics in Mathematics (5)

Prereq: 2 yrs h.s. math. Topics include algebra, geometry, statistics and probability. Primarily for majors in elementary education and related fields. 120 is not a prerequisite.

163A Introduction to Calculus (4)

Prereq: 2 yrs h.s. math or 113 or equiv. Presents survey of basic concepts of calculus. A sequence for students who want an introduction to calculus but do not need the depth of Math 263 A-B-C. Note: Not open for credit without permission to students who have credit for Math 263A.

163B Introduction to Calculus (4)

Prereq: 163A. Continuation of 163A. Note: Not open for credit without permission to students who have credit for Math 263B.

Note: The following three courses (207, 211 and 214) are primarily intended for prospective mathematics majors to introduce them to some mathematical theory at an elementary level.

207 Introduction to Number Theory (5)

Prereq: 113 or 4 yrs h.s. math. Introduction to one of the simplest yet most challenging branches of mathematics. Topics include mathematical induction, prime factorization, Euclidean algorithm, Diophantine equations, congruences and divisibility.

211 Elementary Linear Algebra (5)

Prereq: 113 or 4 yrs h.s. math. Matrix as an array. Elementary row operations. Invertible matrices and systems of linear equations. Vector spaces and linear dependence and independence of vectors. Basis and dimension. Linear transformations. Determinants.

214 Elementary Abstract Algebra (5)

Mappings. Relations. Definitions and examples of groups. Groups of rotations. Cyclic groups. Lagrange's Theorem. Fields. Polynomials over fields.

263A Analytic Geometry and Calculus (5)

Prereq: 113 and 116, 130, Plane Analytic Geometry or 4 yrs h.s. math or perm of math dept. 263A-B-C is a basic introduction to calculus with emphasis on techniques and their applications. Topics covered: functions and limits, differentiation and integration, analytic geometry, vectors, transcendental functions, polar coordinates, solid analytic geometry, partial differentiation, multiple integrals, infinite series. Note: Not open for credit without permission to students who have credit for both Math 163A and B.

263B Analytic Geometry and Calculus (5)

Prereq: 263A or 163B or equiv. Continuation of 263A.

263C Analytic Geometry and Calculus (5)

Prereq: 263B. Continuation of 263A-B.

340 Differential Equations (5)

Prereq: 263C. Ordinary differential equations and related topics.

410 Matrix Theory (5)

Prereq: 263C. Matrix algebra, matrix solutions of linear equations, linear dependence and independence, rank and equivalence, determinants, eigenvalues and eigenvectors. Intended primarily for engineering and science students and not recommended for persons who have taken 211.

MODERN LANGUAGES

For Ohio University students, written permission to take an examination must be

obtained from the Chairman of the Department of Modern Languages. This permission is given in only very exceptional circumstances: for example, it can usually be given to graduating seniors who cannot finish their language requirement before graduation. CCE credit cannot be given to students who have taken equivalent work in high school. CCE credit cannot normally be given if a student is able to take the course on campus. A number of the examinations in modern languages require the use of a tape recorder and are best administered by a qualified language teacher.

FRENCH**111 Elementary French (4)**

Beginning course of a 3-qtr, 1st-yr sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening, comprehension, speaking and writing skills. Basic text and workbook used.

112 Elementary French (4)

Prereq: 111. Continuation of 111. Basic text and workbook used.

113 Elementary French (4)

Prereq: 112. Continuation of 112. Basic text, workbook and readings used.

211 Intermediate French (4)

Prereq: 113 or 2 or 3 yrs high school French. First course of a 3-qtr intermediate level sequence. Intensive review of grammar. Additional readings in French. Supplemental cultural material.

212 Intermediate French (4)

Prereq: 211 or perm. Continuation of 211.

213 Intermediate French (4)

Prereq: 212 or 4 yrs high school French. Reading of selected modern works. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241, Literature and Interpretation.

GERMAN**111 Elementary German (4)**

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Beginning course of a 3-qtr 1st-yr sequence.

(This course makes extensive use of cassette tapes requiring a security deposit of

\$10; a refund of \$7.50 will be made when the tapes are returned in good condition.)

112 Elementary German (4)

Prereq: 111. Continuation of 111.

(This course makes extensive use of cassette tapes requiring a security deposit of \$10; a refund of \$7.50 will be made when the tapes are returned in good condition.)

113 Elementary German (4)

Prereq: 112. Continuation of 112. Continued development of skills of oral and written production and comprehension.

(This course makes extensive use of cassette tapes requiring a security deposit of \$10; a refund of \$7.50 will be made when the tapes are returned in good condition.)

211 Intermediate German (4)

Prereq: 113 or 2 or 3 yrs h.s. German. Continued development of listening comprehension, reading, writing and speaking skills. Grammar review. First course of 3-qtr intermediate level sequence.

212 Intermediate German (4)

Prereq: 211 or perm. Continuation of 211. Emphasis on modern texts.

213 Intermediate German (4)

Prereq: 212 or 4 yrs h.s. German. Modern texts are read. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241, Literature and Interpretation.

SPANISH

111 Elementary Spanish (4)

Development of comprehension, speaking and reading skills. Basic grammar. Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Spanish (4)

Prereq: 111. Continuation of 111.

113 Elementary Spanish (4)

Prereq: 112. Continuation of 112.

211 Intermediate Spanish (4)

Prereq: 113 or 2 or 3 yrs h.s. Spanish. Intensive review of grammar. Additional readings in Spanish. Supplemental cultural material. First course of 3-qtr intermediate level sequence.

212 Intermediate Spanish (4)

Prereq: 211 or perm. Continued review. Additional literary readings in Spanish.

213 Intermediate Spanish (4)

Prereq: 212 or 4 yrs h.s. Spanish. Selected readings of 20th century Spanish dramatists, poets, novelists and essayists in Spanish. Completion of 213 fulfills foreign language requirement of the College of Arts and Sciences. Not open to students who have completed 241, Literature and Interpretation.

APPLIED MUSIC

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

455 Conducting (3)

Prereq: 203, 205. Basic beat patterns, technique of baton and use of left hand. Experience in conducting choral and small instrumental ensembles in works suitable for school groups.

MUSIC EDUCATION

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

160 Music Fundamentals (3)

For elementary education majors only.

261 String Methods and Materials

(2, max 6)*

Prereq: 103, perm. Instruction in stringed instruments with emphasis on teaching techniques, methods and materials.

263 Wind and Percussion Methods and Materials (2, max 12)*

Prereq: 103, perm. Instruction in wind and percussion instruments with emphasis on teaching techniques, methods and materials.

* Please specify the instrument of your choice.

MUSIC HISTORY AND LITERATURE

Information concerning previous study in music must be submitted. Examinations are given only in Athens.

321 History and Literature of Music (3)

Prereq: 103. History of music with survey of musical literature to 1450.

322 History and Literature of Music (3)

Prereq: 321. History of music with survey of musical literature, 1450-1720.

323 History and Literature of Music (3)

Prereq: 322. History of music with survey of musical literature, 1720 to present.

MUSIC THEORY AND COMPOSITION

Information concerning previous study must be submitted. Examinations are given only in Athens.

101 Music Theory (3)

Prereq: music theory placement examination; music majors only. Melodic, harmonic and rhythmic principles of music and its notation.

102 Music Theory (3)

Prereq: 101. Continuation of 101.

103 Music Theory (3)

Prereq: 102. Continuation of 101 and 102.

201 Harmony (3)

Prereq: music majors only, 103 (minimum grade of C). Harmonic and contrapuntal practices of 18th, 19th and 20th centuries, including analysis and composition in smaller forms.

202 Harmony (3)

Prereq: 201. Continuation of 201.

203 Harmony (3)

Prereq: 202. Continuation of 201 and 202. Should be taken concurrently with 206.

204 Dictation and Sight Singing (3)

Prereq: music majors only, 103 (minimum grade of C or perm).

205 Dictation and Sight Singing (3)

Prereq: 204 with a minimum grade of C. Continuation of 204.

206 Analysis and Form (3)

Prereq: 202. Harmonic and structural analysis of larger forms. Should be taken concurrently with 203.

304 Instrumentation (3)

Prereq: 203. Technical characteristics of instruments of band and orchestra. Arranging for small ensembles.

401 Keyboard Harmony (3)

Prereq: 203. Concentration on functional aspects of piano playing: sight reading, accompanying, transposition, harmonization of melodies, improvisation, keyboard harmony.

PHILOSOPHY**101 Fundamentals of Philosophy (5)**

Survey of selected basic problems, concepts and methods in philosophy.

120 Principles of Reasoning (4)

Prereq: not open to those who have had former 102. Use of evidence in establishing reliable conclusions.

130 Introduction to Ethics (4)

Prereq: not open to those who have had former 103. Discussion of classic and/or modern philosophical views of human values, ideals and morality. Provides an introductory survey of some of the main problems, concepts and results of ethics including selected philosophers of the past and present.

301 Introduction (3)

Prereq: not open to those who have had 101. Analysis of typical philosophical problems arising in study of nature, society and religion for purpose of developing a thoughtful and consistent intellectual perspective.

PHYSICAL SCIENCE**101 Physical World (3)***

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, sound, light, electricity and magnetism and astronomy. Topics in astronomy include solar system, time, moon phases, tides, eclipses, sun and galaxies.

102 Physical World (3)*

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of heat, nuclear physics, atomic physics and chemistry. Topics in chemistry include classification of elements, molecules, chemical reactions, solutions and large molecules, including plastics and DNA.

103 Physical World (3)*

Prereq: 101 or equiv. Designed for non-science majors. Fundamental ideas of meteorology and geology. Topics in meteorology include atmosphere, winds, clouds, storms and weather. Topics in geology include rocks and minerals, gradation, earthquakes, continental drift and the ocean.

*Students who are able to complete laboratory work on the Athens campus can qualify for an additional hour of credit.

PHYSICS**201 Introduction to Physics (4)***

1st course in physics; open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Mechanics of solids and liquids, heat and thermodynamics.

202 Introduction to Physics (4)*

Prereq: 201. Continuation of 201. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Includes electricity, magnetism, waves, sound and light.

203 Introduction to Physics (4)*

Prereq: 202. Continuation of 202. Open to students from all areas. Calculus not required. Recommended for students in liberal arts, architecture, industrial technology, botany, geology and premedicine. Includes relativity, quantum, atomic and nuclear physics.

*Students who cannot complete the laboratory work on the Athens campus should register for three hours of credit. Students who complete the 201-202-203 sequence and wish to take higher-level physics courses should take 305, Intermediate Physics in preparation for other 300-level and above courses. Credit is not given for both the 201-202-203 and 251-252-253 sequences together.

251 General Physics (5)*

Prereq: Math 263A. Classical and modern physics with calculus and vectors. Newtonian mechanics of solids and fluids.

252 General Physics (5)*

Prereq: 251 and Math 263B. Classical and modern physics with calculus and vectors. Heat and thermodynamics, electricity and magnetism.

253 General Physics (5)*

Prereq: 252. Classical and modern physics with calculus and vectors. Waves (electromagnetic and mechanical), relativistic mechanics, quantum physics, particles, nuclei, atoms and molecules.

*Students who cannot complete the laboratory work on the Athens campus should register for four hours of credit.

PSYCHOLOGY**101 General Psychology (5)**

Introduction to psychology dealing primarily with learning, sensory processes, social and clinical psychology.

173 Child and Adolescent Psychology (5)

Prereq: 101, not for students with EdEl 200. Behavior from infancy through adolescence.

275 Educational Psychology (5)

Prereq: 101 and 121 or equiv. Psychological foundations of education, with major emphasis upon learning, transfer, motivation and evaluation.

310 Motivation (5)

Prereq: 101 and 121. Scientific study of principles of human action with emphasis on motive, emotion and habit.

332 Abnormal Psychology (5)

Prereq: 101, jr or sr rank. Behavior disorders, their cause and effects on person, family and society.

336 Social Psychology (5)

Prereq: 101, jr or sr rank. Behavior of man as influenced by group membership, with emphasis on individual's interaction as basis of change of motives, attitudes and personality.

QUANTITATIVE METHODS**200 Introduction to Business Data Processing (4)**

Prereq: Math 163 sequence. Role of computer in a business environment. Introductory study of equipment, applications, flow charting and FORTRAN program language. Concepts of random variables and probability distributions.

201 Introduction to Probabilities and Statistics (4)

Prereq: 200. Theoretical distributions, sampling, estimation (point and interval), hypothesis testing, simple regression and correlation.

REAL ESTATE TECHNOLOGY**101 Principles and Practices I (4)**

Basic foundation course in real estate philosophy, theory, economics and administration. Covers elementary physical, legal, locational and economical characteristics of real estate, real estate markets and influences on real estate values.

102 Principles and Practices II (4)

Prereq: 101 or perm. Designed to build on foundation of 101. Covers property ownership and rights, real estate brokerage and construction, marketing and production, land development and construction of buildings and effects of marketing and production systems in our economy.

103 Real Estate Law (4)

Prereq: 101. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and salesmen, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio and zoning.

201 Real Estate Appraising I (4)

Deals with fundamentals of appraising real estate, such as: nature of real property and basic principles of its value, appraisal process, neighborhood and site analysis, building costs and depreciation capitalization and appraisal report.

204 Real Estate Finance (4)

Prereq: 101. Includes institutions, methods, instruments and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government influence on real estate finance and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

221 Real Estate Seminar (4)

Prereq: 204. Special topics in real estate covered. Areas include professionalism, ethics, salesmanship, human relations, F.H.A. and V.A. financing. The real estate office, advertising, building construction and materials, current issues and problems facing real estate professional also considered.

**SECRETARIAL
TECHNOLOGY, GENERAL****111 Beginning Shorthand (3)**

Prereq: 121 or concurrent enrollment. Fundamental theory, basic principles, elementary vocabulary, beginning dictation and transcription in preparation for speed dictation and transcription in more advanced courses.

112 Intermediate Shorthand (3)

Prereq: 111 or equiv. Continuation of 111 with emphasis on vocabulary, dictation and transcription.

121 Beginning Typewriting (3)

Fundamentals of keyboard techniques and operation of typewriter; emphasis on accuracy and speed building.

122 Intermediate Typewriting (3)

Prereq: 121 or equiv. Improvement of speed and accuracy; arrangement of business letters, tables and manuscripts.

SOCIOLOGY**100 Social Problems (4)**

Prereq: not open to students with 223. Sociological analysis of major contemporary social problems and issues. Problems such as militarism, poverty, racism, inequality, cybernation, dehumanization, repression and constraint considered, among others. Theories and research on social structure, social policy and social action. Available September, 1975.

101 Introduction to Sociology (5)

Prereq: fr or soph rank. Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, groups, institutions.

223 American Society (4)

Prereq: 101 or 302. Not open to students with 100. Sociological interpretation of American society. Institutional order: family, economy, government, education and stratification. Problem of stability of social and cultural systems. Replaces 123.

302 Principles of Sociology (5)

Prereq: jr or sr rank. Same as 101, covered in a more intensive manner. Not open to students who have taken 101.

ZOOLOGY**101 Principles of Biology (5)**

Principles and concepts of biology. Emphasis on principles of cellular biology, classical and modern genetics, ecology and evolution. Integration of all topics to show interrelationships of genetics, reproduction, development and evolution. (Same as Bot 101, except that emphasis is on animal life.)

103 Human Biology (4)

Effect of man on ecosystem, including pollution and population relationships. Emphasis on drugs, their abuse, their pharmacology and recent research findings on effects of drugs on humans. Reproductive physiology, contraceptive technology and research, biological aspects of abortion and venereal disease.

325 General Genetics (5)

Prereq: 203, Principles of Zoology or Bot 102. Principles and concepts of genetics as revealed by classical and modern investigation.

345 Human Physiology (4)

Prereq: 300, Elements of Anatomy and

Histology or 301, Human Anatomy; not open to fr. Functions of various systems as applied to the human. Special reference to physiological adaptations to environment and exercise. For education, medical technology, physical education and prephysical therapy students only.

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